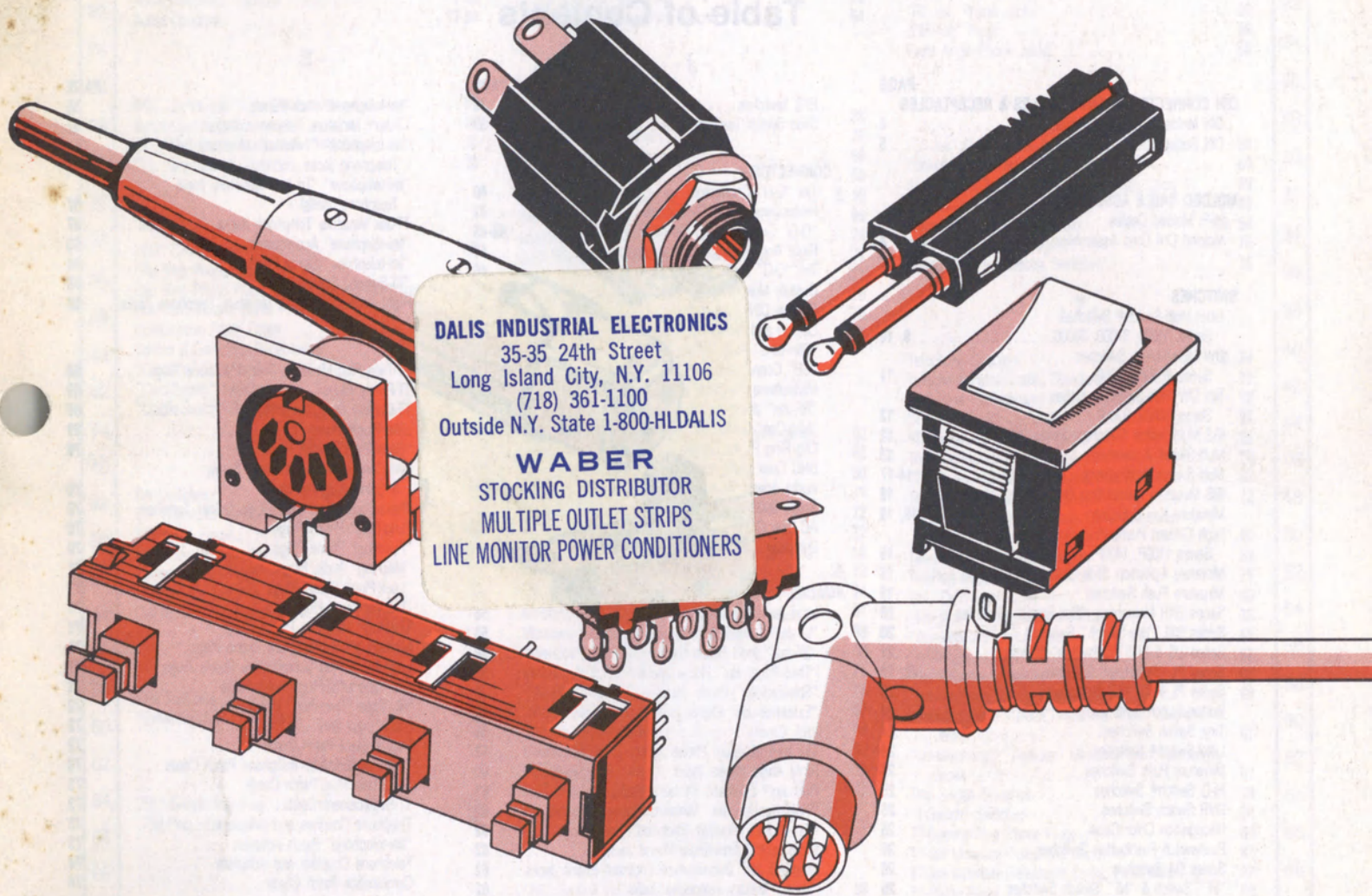


1/86

Switchcraft®

A **Raytheon** Company

Short Form Catalog



DALIS INDUSTRIAL ELECTRONICS
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electronic and electromechanical components for the telecommunications,
sound, computer, medical, military and instrumentation markets.

About this Catalog . . .

The information given is, of necessity condensed. Electronic components illustrated on the following pages are those which are normally stocked by the nationwide network of Switchcraft® Authorized Industrial Distributors.

See or call your local Switchcraft Authorized Industrial Distributor now for off-the-shelf delivery of Switchcraft products—at factory prices.

In addition, if you wish detailed product specifications, drawings or other technical assistance, simply contact Switchcraft or your local Switchcraft representative.

Refer to page 3 for complete **Alphabetical Index** of products in this catalog.

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* Switchcraft, Littel-Jax, Tini-Jax, Micro-Jax, Hi-D Jax, TT-Jax, TT-Plug, Littel-Plug, Tini-Plug, Multi-Switch, Littel-Switch, Hi-D Switches and Mini-Mix are registered trademarks of Switchcraft, Inc.

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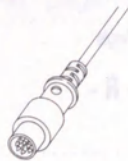
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DIN CONNECTOR MOLDED CABLES AND RECEPTACLES

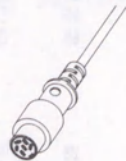
Switchcraft's versatile system of molded cable assemblies and mating receptacles meets the increased demand for modern, miniature connectors for a wide range of electrical/electronic applications. Connectors are DIN circular type and are fully field-proven in electronic applications. Strict requirements of FCC 20780 docket are fully addressed in offering fully shielded links.

The system comprises male and female plugs, locking and non-locking, with from 3 to 8 pins/contacts. Units are fully molded and protected with a rugged handle and advanced design cable relief. A complete range of mating receptacles is also available.

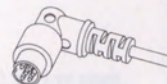
MOLDED CABLES WITH DIN PLUGS



STYLE ST-307



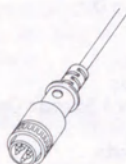
STYLE ST-316



STYLE RA-356



STYLE RA-366



STYLE ST-324



STYLE ST-336



STYLE RA-374

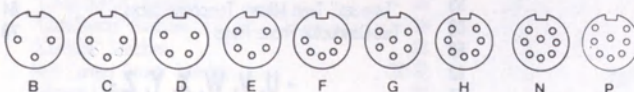
DIN (Deutsch Industrie Norm) plugs are available as part of complete molded cable assemblies. Both male and female plugs can be specified with straight or right angle molded handles, rugged cable reliefs and polarized mating . . . and with a choice of additional valuable features, such as: "Anti-Vibration" lock ring fastening-a 30° twist locks or unlocks mating connectors; "Ground Key Rib" and "Ground Contact" engage during mating for full, through the connector shielding.

Molded cable features include improved strain relief; better match of cable diameter to plug/connector handle; greater protection from wear to cable entry point; less exposed area, better resistance to moisture contamination, dust, dirt, etc.; lower weight/size compared to non-molded assemblies; superior shielding effectiveness on all types; color of molded cables to match or complement equipment color; molded cables are 100% tested for continuity, shorts, appearance, and voltage breakdown (250 or 500 volts).

Part Numbers

Description	Pin/Contact Arrangement	Male (pins) & Female (contacts)						
		3@180°	4@210°	5@180°	5@240°	6@240°	7@270°	8@270°
		B	D	F	E	G	H	N
Straight Handle, Male		ST-303	ST-309	ST-305	ST-304	ST-306	ST-307	ST-308
Straight Handle, Female		ST-313	ST-319	ST-315	ST-314	ST-316	ST-317	ST-318
Straight Handle, Male, Lock Ring		ST-323	ST-329	ST-325	ST-324	ST-326	ST-327	ST-328
Straight Handle, Female Lock Flange		ST-333	ST-339	ST-335	ST-334	ST-336	ST-337	ST-338
Right Angle Handle, Male		RA-353	RA-359	RA-355	RA-354	RA-356	RA-357	RA-358
Right Angle Handle, Female		RA-363	RA-369	RA-365	RA-364	RA-366	RA-367	RA-368
Right Angle Handle, Male, Lock Ring		RA-373	RA-379	RA-375	RA-374	RA-376	RA-377	RA-378
Right Angle Handle, Female, Female, Lock Flange		RA-383	RA-389	RA-385	RA-384	RA-386	RA-387	RA-388

PIN/CONTACT ARRANGEMENTS



For detailed data on above products, ask for Switchcraft Catalog 371.

NOTE: Contact your Switchcraft Representative for price & delivery.

DIN CONNECTOR MOLDED CABLES AND RECEPTACLES (cont'd.)

DIN RECEPTACLES



57PC5F
Typical



60PC4FS
Typical



57NC5F
Typical



62GB7F
Typical



61KD5M
Typical



57HA5F
Typical

Part Numbers NOTE: See pages 48 & 49 for additional listings of circular DIN connectors.

Description	Pin/Contact Arrangement ¹	Male (pins) & Female (contacts)							
		3@180°	4@210°	5@180°	5@240°	6@240°	7@270°	8@262°	8@270°
		B	D	F	E	G	H	P	N
Right Angle Receptacle, Female for PC mtg. Plugs connect at right angle to mtg. surface.		57PC3F ²	60PC4F	57PC5F	61PC5F	61PC6F	62PC7F	70PC8F	62PC8F
Right Angle Receptacle, Female, grd. flange for PC board mtg. Identical to 57PC5F, except metal flange provides through grounding RF shielded.		57PC3FS	60PC4FS	57PC5FS	61PC5FS	61PC6FS	62PC7FS	—	62PC8FS
Receptacle, Female, for PC board mtg. Special PC type terminals "snap-in" pre-cut boards.		58NC3F ²	60NC4F	57NC5F	61NC5F	61NC6F	62NC7F	—	62NC8F
Receptacle, Female, for panel mgt. Available with straight or flared solder terminals.		57GB3F ² 59GB3F	60GB4F	57GB5F	61GB5F	61GB6F	62GB7F	—	62GB8F
Receptacle, Male, for panel mtg., Extended shell with "Ground-Key-Rib", Turret terminals.		57KD3M	60KD4M	57KD5M	61KD5M	—	—	—	—
Receptacle, Female, for panel mtg., Extended shell, Lock Flange, straight solder terminals except 57HB5F.		57HB3F ³	60HA4F	57HA5F 57HB5F ³	61HA5F	61HA6F	62HB7F ³	—	62HB8F ³
Right Angle Receptacle, Male, interlocking flange for side-by-side row mounting PC boards.		—	—	57PC5M	—	—	62PC7M	—	—

NOTES: ¹ See page 4 for contact arrangements.

² Insert has 2 blank holes. Also mates with pin arrangement F (2 circuits not used).

³ Flared solder terminals.

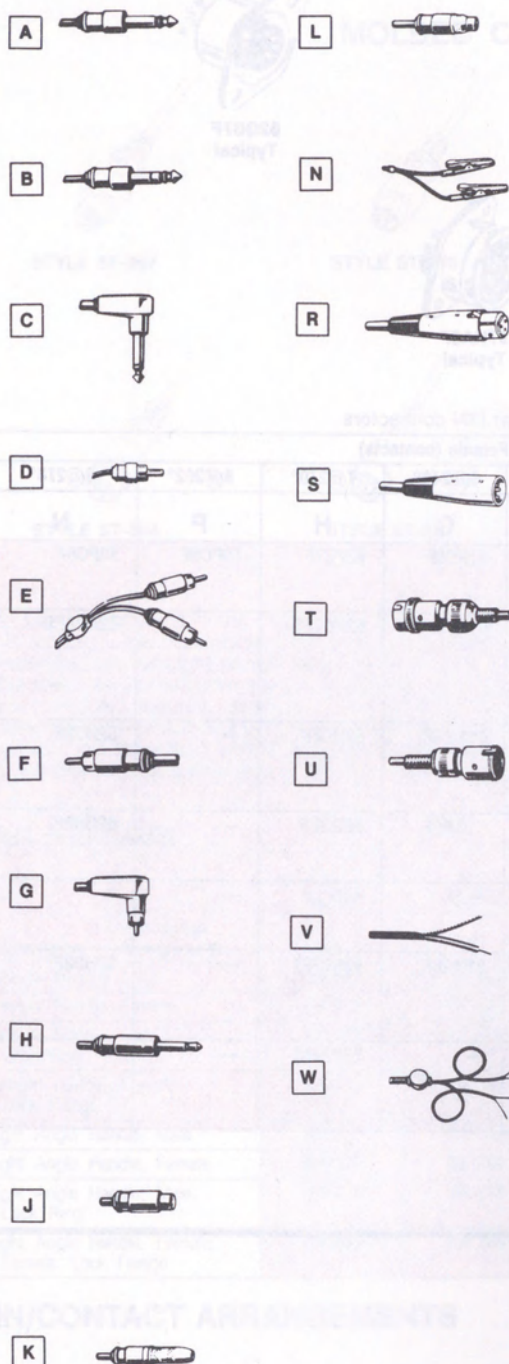
For detailed data on above products, ask for Switchcraft Catalog 371.

NOTE: Contact your Switchcraft Representative for price & delivery.

Hi-Fi MOLDED CABLES

Switchcraft quality molded cable assemblies offer built-in cable clamps to support cable and eliminate strain — functionally designed handles proved easy grip. Cable — chrome gray (unless otherwise specified) with matching plastic handles. Fig. R Switchcraft Q-G 3-Pin Audio Connector —

Female. Fig. S Switchcraft Q-G 3-Pin Audio Connector — Male. Fig. T Amphenol 3-Pin connector — Female. Fig. U Amphenol 3-Pin Connector — Male. Part Nos. 25WN25, 25WT25 — molded brown handles, clear, low visibility rip cord cable.



Part Number	Terminations		Length Ft. (m)
	End No. 1 Fig.	End No. 2 Fig.	

STRAIGHT 2-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS

05AC05	A	A	1.5 (.46)
05AD05	A	A	2 (.61)
05AK05	A	A	6 (1.83)
05AN05	A	A	10 (3.05)
05AU05	A	A	25 (7.62)
05AN15	A	C	10 (3.05)
05AK25	A	D	6 (1.83)
05AN25	A	D	10 (3.05)
05AR25	A	D	15 (4.57)
05AN80	A	K	10 (3.05)
05AU80	A	K	25 (7.62)
05AK84	A	V	6 (1.83)
05AN84	A	V	10 (3.05)
05AR84	A	V	15 (4.57)

STRAIGHT 3-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS

10BF10	B	B	3 (.91)
10BK10	B	B	6 (1.83)
10BN10	B	B	10 (3.05)
10BN81**	B	K	10 (3.05)
10BU81**	B	K	25 (7.62)

**Designed for use as stereo "head phone" extension cords, and feature a molded 3-cond. .25 in. (6.35 mm) jack on one end and a molded 3-cond. .25 in. (6.35 mm) plug on the other end.

TABLES CONTINUED ON NEXT PAGE

For detailed data on above products, ask for Switchcraft Catalog A-404.

NOTE: Contact your Switchcraft Representative for price & delivery.

Hi-Fi MOLDED CABLES (cont'd.)

SEE PAGE 6 FOR TERMINATION ILLUSTRATIONS

Part Number	Terminations		Length Ft. (m)
	End No. 1 Fig.	End No. 2 Fig.	

Stereo Cable Assembly for use with stereo tape recorders using 3-conductor dual microphone inputs—Norelco, Webcor, Revere, Wollensak. Hearing Aid Tinsel Cord

10FK25	C	C	6 (1.83)
--------	---	---	----------

RIGHT ANGLE 2-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS

15AK15	C	C	6 (1.83)
15AK25	C	D	6 (1.83)
15AU80	C	K	25 (7.62)
15AN84	C	V	10 (3.05)

STRAIGHT PHONO PLUG TO VARIOUS CONNECTIONS

25AC25	D	D	1.5 (.46)
25AF25	D	D	3 (.91)
25AH25	D	D	4 (1.22)
25AK25	D	D	6 (1.83)
25AN25	D	D	10 (3.05)
25AR25	D	D	15 (4.57)
25AT25	D	D	20 (6.10)
25AU25	D	D	25 (7.62)
25WN25*	D	D	10 (3.05)
25WT25*	D	D	20 (6.10)
25AC30	D	G	1.5 (.46)
25AC82	D	J	1.5 (.46)
25AF82	D	J	3 (.91)
25AK82	D	J	6 (1.83)
25AN82	D	J	10 (3.05)
25AT82	D	J	20 (6.10)
25AC84	D	V	1.5 (.46)
25AF84	D	V	3 (.91)
25AH84	D	V	4 (1.22)
25AK84	D	V	6 (1.83)
25AN84	D	V	10 (3.05)
25AR84	D	V	15 (4.57)
25WN84	D	V	10 (3.05)

Part Number	Terminations		Length Ft. (m)
	End No. 1 Fig.	End No. 2 Fig.	

STRAIGHT PHONO PLUGS TO VARIOUS CONNECTIONS

25WT84	D	V	20 (6.10)
--------	---	---	-----------

Special Stereo Cables — Two shielded insulated cables inside a common grey plastic jacket. Provides two isolated channels for all stereo applications. Phono plugs color coded. Hearing Aid Tinsel Cord.

25FF25	E	E	3 (.91)
25FK25	E	E	6 (1.83)
25FN25	E	E	10 (3.05)
25FF82	E	J + J	3 (.91)
25FK82	E	J + J	6 (1.83)
25FN82	E	J + J	10 (3.05)
25FF84	E	W	3 (.91)
25FK84	E	W	6 (1.83)
25FN84	E	W	10 (3.05)

STRAIGHT PHONO PLUG (LONG HANDLE) TO VARIOUS CONNECTIONS

26AF26	F	F	3 (.91)
26AK26	F	F	6 (1.83)

RIGHT ANGLE PHONE PLUG TO VARIOUS CONNECTIONS

30AC30	G	G	1.5 (.46)
30AF30	G	G	3 (.91)
30AK30	G	G	6 (1.83)
30AN30	G	G	10 (3.05)
30AR30	G	G	15 (4.57)

*Parallel unshielded cable.

For detailed data on above products, ask for Switchcraft Catalog A-404.

NOTE: Contact your Switchcraft Representative for price & delivery.

Hi-Fi MOLDED CABLES (cont'd.)

SEE PAGE 6 FOR TERMINATION ILLUSTRATIONS

Part Number	Terminations		Length Ft. (m)
	End No. 1 Fig.	End No. 2 Fig.	

STRAIGHT Tini-Plug PLUG TO VARIOUS CONNECTIONS

40DF05	H	A	3 (.91)
40DK05	H	A	6 (1.83)
40DN05	H	A	10 (3.05)
40DF25	H	D	3 (.91)
40DK25	H	D	6 (1.83)
40DN25	H	D	10 (3.05)
40DK40	H	H	6 (1.83)
40DK80	H	K	6 (1.83)
40DK83	H	L	6 (1.83)
40DN83	H	G	10 (3.05)
40DF84	H	V	3 (.91)
40DK84	H	V	6 (1.83)
40DN84	H	V	10 (3.05)
40DK86	H	N	6 (1.83)

Part Number	Terminations		Length Ft. (m)
	End No. 1 Fig.	End No. 2 Fig.	

EXTENSION JACK CORDS

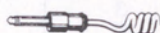
82AF82	J	J	3 (.91)
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MICROPHONE CONNECTOR TO VARIOUS CONNECTIONS

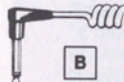
91BU92	R	S	25 (7.62)
92BU92	S	S	25 (7.62)
93BU94	T	U	25 (7.62)

MOLDED COILED CORD ASSEMBLIES

Shielded coiled cords with molded terminations and/or stripped and tinned ends. Single conductor shielded cable with black neoprene jacket. Coiled cord flexes to maximum length and retracts positively each time.



A



B

Part No.	Terminations		Extended Length
	End No. 1	End No. 2	
05LT15	A	B	(6.10 m)

For detailed data on above products, ask for Switchcraft Catalog A-404.

NOTE: Contact your Switchcraft Representative for price & delivery.

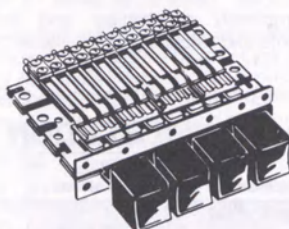
Multi-Switch SWITCHES

Compact, versatile high-quality, multiple station pushbutton switches. Pushbuttons on .625 in. (15.88 mm) centers. Switches available from 1 to 18 stations. Four functions available (see chart). Multiple row switch assemblies are available on special order. Contact Switchcraft.

MECHANICAL FUNCTIONS

Available Functions	Explanation
Interlock with Lock-Out	Actuating a pushbutton automatically restores to normal the pushbutton previously actuated. Lock-out prevents operation of more than one pushbutton at a time.
Non-Lock	Each pushbutton has momentary action.
All-Lock (special order only)	All pushbuttons, except release, lock when depressed. All pushbuttons restored to normal by actuating release pushbutton.
Push-Lock/Push-Release	Pushbutton locks when depressed and is released when again depressed.

SERIES 35000 NON-ILLUMINATED SWITCHES



Switches mount on panels up to .125 in. (3.18 mm) thick. Up to 6PDT switching in .6 in. (15.24 mm) sq. in. Narrow rectangular silhouette permits stacking in parallel rows on 1 in. (25.4 mm) centers. Only 2.313 in. (58.75 mm) depth behind panel. Frames have four 6-32 tapped mounting holes. A square black pushbutton, Part No. A-592, is supplied standard for each station. Other pushbuttons and colors are available, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. Plungers made from .05 in. (1.27 mm) x .187 in. (4.75 mm) steel accept std. push-on pushbuttons as well as Switchcraft pushbuttons. On 2-C PER STATION switches, each station includes two No. 83P switch stacks.

On 4-C PER STATION switches, each station includes four No. 83P switch stacks. The following part numbers cover completely assembled and factory tested switches. Only the most commonly used switches are listed here. Series NJ solenoid releases are available. See "ACCESSORIES" on page 13.

Part Numbers/2-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/Push-Release	No. of Stations ²
35021K-206	35022-206	35027-206	2
35041K-206	35042-206	35047-206	4
35061K-206	35062-206	35067-206	6
35081K-206	35082-206	35087-206	8
35101K-206	35102-206	35107-206	10
35121K-206	35122-206	35127-206	12

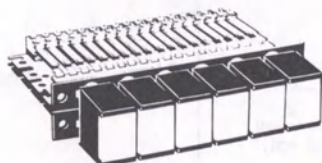
Part Numbers/4-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/Push-Release	No. of Stations ²
35021K-212	35022-212	35027-212	2
35041K-212	35042-212	35047-212	4
35061K-212	35062-212	35067-212	6
35081K-212	35082-212	35087-212	8
35101K-212	35102-212	35107-212	10
35121K-212	35122-212	35127-212	12

NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.

² Odd number of stations (3,5,7,9,11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

SERIES 37000 SINGLE LAMP ILLUMINATED SWITCHES



Identical in switching functions and characteristics as non-illuminated series 35000, but features large rectangular shaped pushbuttons which serve as a color or legend coded panel indicator light which actuates up to 6PDT switching. Switches mount in parallel rows from 1 in. (25.4 mm) centers and up. Depth behind panel 2.313 in. (58.75 mm). A black pushbutton housing with a white translucent color filter insert, a white legend insert, two transparent support inserts and a transparent clear display screen, Part No. 400-12, is supplied standard for each station. Other push buttons and different color combinations are available, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. On 2-C PER STATION switches, each station includes two No. 83P

switch stacks, one No. H-83P lighting stack, one No. H (convenience) lighting spring. On 4-C PER STATION switches, each station includes four No. 83P switch stacks, one No. H-83P lighting stack and one No. H (convenience) spring. Lighting arrangements such as "L"—pushbuttons light in "IN" position; "M"—pushbuttons light in "OUT" positions, can be effected by wiring direct to the No. H-83P, and No. H lighting stacks. The following part numbers cover completely assembled and factory tested switches. Only the most commonly used switches are listed here. Lamps must be specified for each station separately. See "LAMPS" on page 13. Series NJ solenoid releases, Lamp Removal Tool No. P-2460 and T-1 Lamp Adapters are available; see "ACCESSORIES" on page 13.

See page 17 for special effects display screen and inserts.

Part Numbers/2-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/Push-Release	No. of Stations ²
37021K-1206	37022-1206	37027-1206	2
37041K-1206	37042-1206	37047-1206	4
37061K-1206	37062-1206	37067-1206	6
37081K-1206	37082-1206	37087-1206	8
37101K-1206	37102-1206	37107-1206	10
37121K-1206	37122-1206	37127-1206	12

NOTES: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.

² Odd numbers of stations (3,5,7,9,11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

For detailed data on above products, ask for Switchcraft Catalog S-323.

NOTE: Contact your Switchcraft Representative for price & delivery.

littel Multi-Switch SWITCHES (cont'd.)

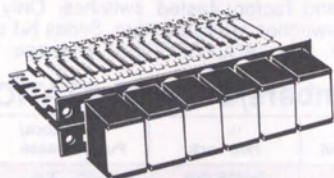
Part Numbers/4-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
37021K-1212	37022-1212	37027-1212	2
37041K-1212	37042-1212	37047-1212	4
37061K-1212	37062-1212	37067-1212	6
37081K-1212	37082-1212	37087-1212	8
37101K-1212	37102-1212	37107-1212	10
37121K-1212	37122-1212	37127-1212	12

NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.

² Odd number of stations (3, 5, 7, 9, 11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

SERIES 38000 TWIN LAMP ILLUMINATED SWITCHES



Same compact assembly and versatility as Series 37000, except features twin lamp illumination at each station for redundant or two color, split-face (alternate) lighting. A black pushbutton housing with a white translucent color filter insert, a white legend insert, two transparent support inserts and a transparent clear display screen, Part No. 400-12, is supplied standard for each station. Other push-buttons and different color combinations are available, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. On 2-C PER STATION switches, each station includes three No. H-83P lighting switch stacks and one No. H lighting spring. This arrangement provides up to 3DPT circuitry. One pole is needed for lighting lamps. On 4-C PER STATION switches, each station includes three No. H-83P switch stacks, two No. 83P switch stacks

and one No. H lighting spring. This combination offers 5PDT circuitry; of which, one pole is required for lighting lamps. Series 38000 accepts T 1-3/4 flange base lamp, two at each station (lamps not furnished). See "LAMPS" on page 13. Following part numbers cover completely assembled and factory tested switches. Series NJ solenoid releases are available. See "ACCESORIES" on page 13.

See page 17 for special effects display screens and inserts.

Part Numbers/2-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
38021K-1206	38022-1206	38027-1206	2
38041K-1206	—	38047-1206	4
38061K-1206	—	38067-1206	6
38081K-1206	—	38087-1206	8
38101K-1206	38102-1206	38107-1206	10
38121K-1206	—	38127-1206	12

Part Numbers/4-C PER STATION¹

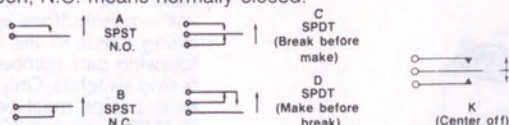
Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
38021K-1212	38022-1212	38027-1212	2
38041K-1212	—	38047-1212	4
38061K-1212	—	38067-1212	6
38081K-1212	—	—	8
38101K-1212	38102-1212	38107-1212	10
38121K-1212	—	38127-1212	12

NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.

² Odd numbers of stations (3, 5, 7, 9, 11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

BASIC SCHEMATIC CIRCUITS

Switch circuitry can be described as combinations of basic schematic circuits as shown below. N.O. means normally open; N.C. means normally closed.



The above are strictly electrical schematics and do not necessarily indicate relative solder lug positions.

For detailed data on above products, ask for Switchcraft Catalog S-323.

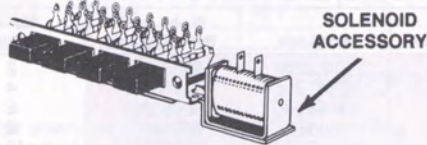
NOTE: Contact your Switchcraft Representative for price & delivery.

DW Multi-Switch SWITCHES

An economical multiple station pushbutton switch—the DW (double-wipe) Multi-Switch switch is available in up to 18 stations in a single row; or on special order, ganged assemblies with interaction between rows. Max. switching per station is 4-C (4DPT). Each station utilizes specially designed switching modules with U-shaped, high reliable bifurcated

contactors rated at 3 A, AC; 0.5 A, DC, 125 V, non-inductive load. DW Multi-Switch switches are available in 65000 and 67000 series standard. 70000 and 71000 series available on special See "MECHANICAL FUNCTIONS" page 9. Pat No. 3,517,140; Can. Pat No. 882,307 (Sept. 28, 1971).

SERIES 65000 NON-ILLUMINATED SWITCHES



Series 65000 switches are completely assembled and tested at the factory. All standard assemblies have 2-C or 4-C switch modules with solder lug terminals. Integral black pushbutton is supplied standard for each station. Assemblies from one to 18 stations mount with only two, No. 6 screws and nuts (not furnished). Depth behind panel — 2-C assemblies — 1.063 in. (27 mm); 4-C assemblies — 1.938 in. (49.23 mm). Overall switch height is .844 in. (21.43 mm). The following part numbers cover a completed switch assembly. Only the most commonly used switch assemblies are listed here. Series DW solenoid releases and Series DW-100 and DW-200 escutcheon modules are available. See "ACCESSORIES" on page 13.

Part Numbers/2-C PER STATION¹

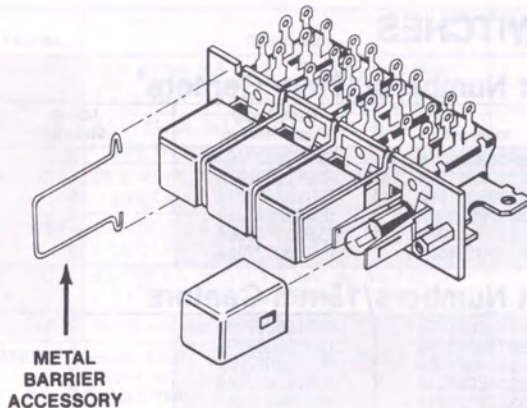
Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
65021K-206	65022-206	65027-206	2
65041K-206	65042-206	65047-206	4
65061K-206	65062-206	65067-206	6
65081K-206	65082-206	65087-206	8
65101K-206	65102-206	65107-206	10
65121K-206	65122-206	65127-206	12

Part Numbers/4-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
65021K-212	65022-212	65027-212	2
65041K-212	65042-212	65047-212	4
65061K-212	65062-212	65067-212	6
65081K-212	65082-212	65087-212	8
65101K-212	65102-212	65107-212	10
65121K-212	65122-212	65127-212	12

NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.
² Odd number of stations (3,5,7,9,11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

SERIES 67000 ILLUMINATED SWITCHES



Illuminated (Series 67000) DW Multi-Switch switches retain all quality construction and reliable switching of Series 65000. A large square white pushbutton, Part No. DW-305, is supplied standard for each station. Other pushbuttons and colors are available, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. Pushbuttons easily snap-off actuators for simple front-of-panel relamping. Lamp sockets, at each station, accept a single 6V to 28V lamp. Lamp socket terminals separate from switching terminals. See "LAMPS" on page 13. Mounts with only two #6-32 ma-

chine screws (not furnished). Two #6-32 tapped studs ("stand offs") are integral with the frame and are used to provide proper positioning of the switches. Depth behind panel 1.5 in. (38.1 mm) (2-C switching); 2.375 in. (60.33 mm) (4-C switching). Series 67000 is 1.063 in. (27 mm) high. Only the most commonly used switch assemblies are listed here. Series DW solenoid releases, Lamp Removal Tool P-2460, T-1 Lamp Adapter and P-2359 Metal Barriers are available. See "ACCESSORIES" on page 13.

Part Numbers/2-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
67021K-506	67022-506	67027-506	2
67041K-506	67042-506	67047-506	4
67061K-506	67062-506	67067-506	6
67081K-506	67082-506	67087-506	8
67101K-506	67102-506	67107-506	10
67121K-506	67122-506	67127-506	12

Part Numbers/4-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
67021K-512	67022-512	67027-512	2
67041K-512	67042-512	67047-512	4
67061K-512	67062-512	67067-512	6
67081K-512	67082-512	67087-512	8
67101K-512	67102-512	67107-512	10
67121K-512	67122-512	67127-512	12

NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.
² Odd number of stations (3,5,7,9,11) are available. Switches with 13 thru 18 stations also available. Contact Switchcraft.

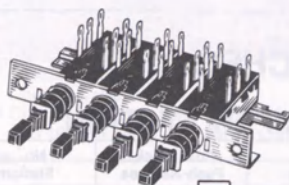
For detailed data on above products, ask for Switchcraft Catalog S-325.

NOTE: Contact your Switchcraft Representative for price & delivery.

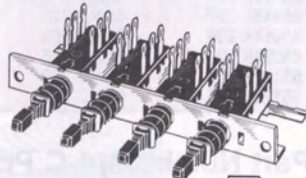
Tini DW Multi-Switch SWITCHES

Subminiature, multiple station switches have pushbuttons on 10 mm and 15 mm centers. Four mechanical functions — Interlock with lockout, Non-Lock, All-Lock and Push-Lock/ Push-Release (see "MECHANICAL FUNCTIONS" on page 9). Switches mount on panels up to .343 in. (8.71 mm) thick.

Switching per station is 2-C (2PDT) or 4-C (4PDT). Up to 6C (6PDT) or 8-C (8PDT) switching available on special order. Switching elements have "Snap Slide" action with bifurcated, silver plated contacts rated at 0.5 A, 28 V, AC or DC non-inductive.



A



B

A SERIES 90000 — 10 mm centers. Single row switches, factory assembled and tested with 2-C or 4-C switching per station (6C to 8C available on special order) and solder lug terminals. Switch mounts with 2, #3 screws or .096 in. (2.44 mm) dia. rivets (not furnished). Depth behind panel, 2-C assemblies — .875 in. (22.23 mm), 4-C assemblies — 1.5 in. (38.1 mm). Switch height: .671 in. (17.04 mm). Switches are stocked without pushbuttons due to wide variety that can be used. Order pushbuttons separately, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. Switches with Interlock and All-Lock are available in single rows up to 12 stations; Non-Lock and Push-Lock/ Push-Release up to 18 stations.

B SERIES 92000 — 15 mm station centers. Wider spacing will accept Switchcraft Series TDW-F "Flip-Flop" pushbuttons. Switches are stocked without pushbuttons due to wide variety that can be used. Order pushbuttons separately, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15.

Part Numbers/2-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
90024B06	90022B06	90027B06	2
90044B06	90042B06	90047B06	4
90064B06	90062B06	90067B06	6
90084B06	90082B06	90087B06	8
90104B06	90102B06	90107B06	10
90124B06	90122B06	90127B06	12

Part Numbers/4-C PER STATION¹

Interlock with Lock-Out	Non-Lock	Push-Lock/ Push-Release	No. of Stations ²
90024B12	90022B12	90027B12	2
90044B12	90042B12	90047B12	4
90064B12	90062B12	90067B12	6
90084B12	90082B12	90087B12	8
90104B12	90102B12	90107B12	10
90124B12	90122B12	90127B12	12

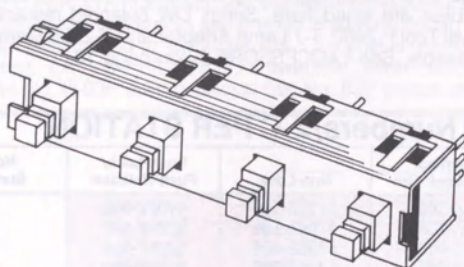
NOTE: ¹ Switches with all-lock function are available on special order. Contact Switchcraft.

² Odd number of stations (3,5,7,9,11) are available. Contact Switchcraft.

SPECIFYING NOTE:

Series 90000 part nos. are given in table. To order series 92000 switches, substitute "2" for "0" for 2d. digit of part no. Example: Part No. 92024B06 in the series 92000 version (15 mm centers) of part no. 90024B06 (10 mm centers) interlock with lock-out, 2-C switching per station).

IBS Multi-Switch SWITCHES



Series 98000 IBS miniature pushbutton switches can be gang mounted on common frames, up to 12 stations long with center-to-center spacing of 10 mm, 15 mm or 20 mm. Available with interlock, non-lock, momentary or push-lock/push-release mechanical functions. .130 in. (3.30 mm) x .130 in. (3.30 mm) square plungers accept a full line of industry standard pushbuttons. Switches are stocked without pushbuttons due to wide variety that can be used. Order pushbuttons separately, see "MULTI-SWITCH PUSHBUTTON SPECIFYING TABLE" on pages 14-15. Switches have .157 in. (4 mm) long PC terminals for mtg. single- or double-sided PC boards up to .094 in. (2.39 mm) thick. Close stacking (centers) permits high density within minimum front panel space. Plunger travel: .144 in. (3.66 mm).

Part Numbers/10mm Centers¹

Interlock	Push-Lock/ Push-Release	No. of Stations ²
IBS10B02106A	IBS10B02706A	2
IBS10B04106A	IBS10B04706A	4
IBS10B06106A	IBS10B06706A	6
IBS10B08106A	IBS10B08706A	8
IBS10B10106A	IBS10B10706A	10
IBS10B12106A	IBS10B12706A	12

Part Numbers/15mm Centers¹

Interlock	Push-Lock/ Push-Release	No. of Stations ²
IBS15B02106A	IBS15B02706A	2
IBS15B04106A	IBS15B04706A	4
IBS15B06106A	IBS15B06706A	6
IBS15B08106A	IBS15B08706A	8
IBS15B10106A	IBS15B10706A	10
IBS15B12106A	IBS15B12706A	12

Part Numbers/20mm Centers¹

Interlock	Push-Lock/ Push-Release	No. of Stations ²
IBS20B02106A	IBS20B02706A	2
IBS20B04106A	IBS20B04706A	4
IBS20B06106A	IBS20B06706A	6
IBS20B08106A	IBS20B08706A	8
IBS20B10106A	IBS20B10706A	10
IBS20B12106A	IBS20B12706A	12

NOTE: ¹ Switches with non-lock function is available on special order. Contact Switchcraft.

² Odd number of stations (3,5,7,9,11) are available. Contact Switchcraft.

For detailed data on above products, ask for Switchcraft Catalogs 349 and 357.

NOTE: Contact your Switchcraft Representative for price & delivery.

ACCESSORIES FOR Multi-Switch SWITCHES



SERIES NJ — SOLENOID RELEASE

Part No.	Function Used On	Voltage	Max. Duty Cycle
NJ-1	Interlock	115 V AC	25%
NJ-3	All-Lock	115 V AC	10%
NJ-4	Interlock	24 V DC	25%
NJ-5	Interlock	28 V DC	25%
NJ-6	Interlock	48 V DC	25%
NJ-7	All-Lock	24 V DC	10%
NJ-8	All-Lock	28 V DC	10%
NJ-9	All-Lock	48 V DC	10%

A simple solenoid assembly can be added at the end of a standard Series 35000, 37000, or 38000, little Multi-Switch switch to provide electrical release of activated stations. **No. NJ-1** designed to release up to 18 interlock stations. **No. NJ-3** releases up to 12 all-lock stations. Both are used in 115 V AC, 60 Hz circuits. **No. NJ-4** (releases up to 18 interlock stations) and **No. NJ-7** (releases up to 12 all-lock stations) are rated at 24 V DC. **No. NJ-5** (releases up to 18 interlock stations) and **No. NJ-8** (releases up to 12 all-lock stations) are rated at 28 V DC. **No. NJ-6** (releases up to 18 interlock stations) and **No. NJ-9** (releases up to 12 all-lock stations) are rated at 48 V DC.

SERIES DW — SOLENOID RELEASE

Pull-type solenoids are available that can be added on the end of a Series 65000, 67000 DW Multi-Switch switch. Solenoid, mounting hardware, screws and instructions furnished.

Part No.	Description
DW-1	Used with interlock switches, 1 to 12 sta. 115 V AC, 60 Hz. Coil: 361Ω. Duty cycle: 20%.
DW-3	Used with all-lock switches, 1 to 12 sta. 115 V AC, 60 Hz. Coil: 130Ω. Duty cycle: 10%.
DW-4	Same as DW-1 except 24 V DC. Coil: 14.2Ω. Duty cycle: 20%.
DW-7	Same as DW-3 except 24 V DC. Coil: 8.96Ω. Duty cycle: 10%.

SERIES DW-100 AND DW-200 ESCUTCHEON MODULES

DW Escutcheon Modules are available in various colors to complement Series 65000 pushbutton actuator colors. Installation of the modules is fast and simple and no tools are required. Modules are slipped over the pushbutton actuator before mounting the switch on the panel. Flanges at base of modules overlap the panel cutout and hold modules securely in place adding only .020 in. (.51 mm) to behind-panel depth.

Series DW-100 (without barrier)	Series DW-200 (with barrier)	Color
DW-101	DW-201	Red
DW-102	DW-202	Black
DW-105	DW-205	White

LAMPS

Lamps are not normally supplied with Switchcraft illuminated switches. See chart below for specifying lamps.

Part No.	Description	Used On Switch
P-1593-1	28 V, 40 mA., Ind. No. 327, T 1-3/4 Flange Base.	1,2
P-1593-2	6 V, 200 mA., Ind. No. 328, T 1-3/4 Flange Base.	1,2
P-1593-5	6.3 V, 75 mA., Ind. No. 377, T 1-3/4 Flange Base. Long Life.	1,2
P-1593-6	28 V, 40 mA., Ind. No. 387, T 1-3/4 Flange Base. Long Life.	1,2
P-1593-7	6 V, 200 mA., Ind. No. 381, T 1-3/4 Flange Base. Long Life.	1,2
P-1890 ⁴	6 V, 126 mA., (or 5 V, 115 mA.) Ind. No. 718, T 1 Subminiature Flange Base.	1,2
P-2290	6V, 75 mA., Ind. No. 7377, T 1-3/4 Bi-Pin	3

NOTES: ¹ Series 37000 and 38000 Multi-Switch switches; Series PL "Push-Lite", and "PL" Indicators.
² Series 67000 Multi-Switch switches.
³ Series US & LUS "Uniswitch" switches.
⁴ When used with T-1 lamp adapter.

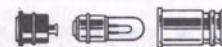
SPECIFYING NOTE: Use **Part No. T-1 Lamp Adapter** to convert sockets on Series 67000, Series PL "Push-Lite" and "PL" Indicators to accept Part No. P-1890 lamp.

METAL BARRIERS FOR SERIES 67000

Sturdy wire barriers fit between pushbuttons and prevent accidental simultaneous actuation of adjacent pushbuttons. Can be installed on Series 67000 only. Refer to page 11 for illustration.

Switchcraft Part No. P-2359

T-1 LAMP ADAPTER



Lamp Adapter, Part No. T-1, converts T-1 lamp base to a T 1-3/4 lamp base for series 37000 and 67000. Adapter permits use of T-1 (P-1890) midget flange base in sockets designed for T 1-3/4 lamps.

Switchcraft Part No. T-1

LAMP REMOVAL TOOL

Switchcraft No. P-2460 Lamp Removal Tool removes sub-miniature T 1-3/4 lamps. Simply slip tool over lamp, slide sleeve forward, and pull or slide lamp free. Orange plastic cap on tool serves as finger grip. Also useful on lamps for "Uniswitch" switches, Series LUS; little Multi-Switch 37000, and DW Multi-Switch switches series 67000. Front access to lamp is required.

NOTE: No. P-2460 may not fit all lamps

Switchcraft Part No. P-2460

CAUTION: When any switch series utilizes neon type lamps, lamp shell must be properly grounded to eliminate shock hazard when pushbutton is removed. Bent lamp terminal is common to lamp shell. Permanent ground should be established either by proper line, polarization or use of an isolation transformer.

For detailed data on above products, ask for Switchcraft Catalogs S-323 and S-325.

NOTE: Contact your Switchcraft Representative for price & delivery.

Multi-Switch PUSHBUTTON SPECIFYING TABLE

Use the chart below to specify pushbuttons for Multi-Switch switches in this catalog.

		ILLUMINATED				NON-ILLUMINATED			
		Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6	Fig. 7	Fig. 8
									
Pushbutton Series ⁴		400 ⁵	MV-400	409 ⁷	DW300 ⁶	590	A-590	A-590-T2	A-590-T4
Switch Series	35000					X	X (Std.)	X	X
	37000	X (Std.)	X	X					
	38000	X (Std.)	X	X					
	65000 ²								
	67000				X (Std.)				
	70000 ³					X	X	X	X
	71000 ³					X			
	90000 ³								
	92000 ³								
	IBS ³								

NOTES: ¹ Not recommended for use on switches having push-lock/push-release mech. functions.

² Buttons are an integral part of switch assembly on Series 65000.

³ Switches stocked without pushbuttons due to wide variety that can be used. Order pushbuttons separately.

⁴ Any pushbutton Series can be specified with engraved or hot-stamped legends.

⁵ Display screens & inserts are also available in a wide choice of colors; see "SPECIAL EFFECTS COLOR DISPLAY SCREENS & INSERTS" on page 17.

⁶ Colored inserts are available in a wide choice of colors; see "SERIES DW-40 COLOR INSERTS" on page 16.

⁷ Double width button.

Multi-Switch PUSHBUTTON PART NUMBERS

Use the information below to specify colors of the pushbutton series desired. Series TDW-F and DW-678 must be specified separately. See separate charts "TDW-F Pushbutton Part Numbering" & "DW-678 Pushbutton Part Numbering" for these series.

Part No.	Fig.	Color	Overall Size In. (mm)	
			W	H
400-01 400-02 400-03 400-04 400-05 400-08 400-12	1	Red Black Green Blue White Yellow Clear	.594 (15.09)	.974 (24.7)
MV401-01 MV401-03 MV401-04 MV401-05 MV401-08 MV401-12	3	Red Green Blue White Yellow Clear	.594 (15.09)	.974 (24.7)
409-01 409-02 409-03 409-04 409-05 409-08 409-12	3	Red Black Green Blue White Yellow Clear	1.219 (30.96)	.719 (18.26)

Part No.	Fig.	Color	Overall Size In. (mm)	
			W	H
DW-301 DW-303 DW-304 DW-305 DW-308 DW-312 DW-313 DW-316	4	Red Green Blue White Yellow Clear Amber "Black Screen"	.594 (15.09)	.594 (15.09)
591 592 593 594 595 596 598	5	Red Black Green Blue White Brown Yellow	.5 (12.7)	.5 (12.7)
A-591 A-592 A-593 A-594 A-595 A-596 A-598	6	Red Black Green Blue White Brown Yellow	.594 (15.09)	.594 (15.09)
A-591-T2 A-591-T4 A-592-T2 A-592-T4 A-593-T2 A-593-T4 A-594-T2 A-594-T4 A-595-T2 A-595-T4 A-596-T2	7 8 7 8 7 8 7 8 7 8 7	Red Red Black Black Green Green Blue Blue White White Brown	.594 (15.09)	.594 (15.09) ^{1,2}

For detailed data on above products, ask for Switchcraft Catalogs
349, 357, S-323 and S-325.

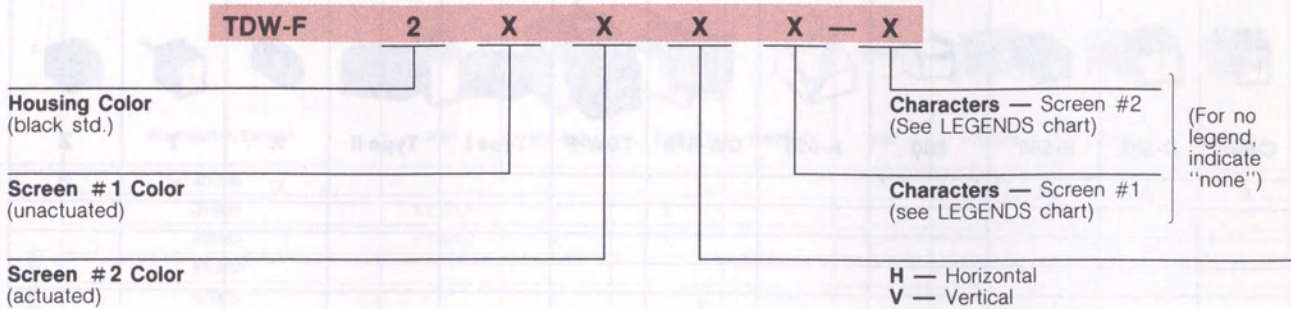
SERIES TDW-F — "Flip-Flop" PUSHBUTTONS (Fig. 15)

Unique internal "flip-flop" mechanism permits button face to change colors without electrical energy, lamps or wiring. When pushbutton is operated, highly reflective panels inside housing change position and use ambient light to give a bright illuminated effect. Black pushbuttons are .59 in. (15 mm) h x .63 in. (16 mm) w.

Display window is .315 in. (8 mm) h x .374 in. (9.5 mm) w.

NOTE: "FLIP-FLOP" PUSHBUTTONS ARE DESIGNED FOR USE WITH SERIES 92000 SWITCHES ONLY. Order "flip-flop" pushbuttons with Series 92000 switches.

TDW-F "Flip-Flop" Pushbutton Part Numbering

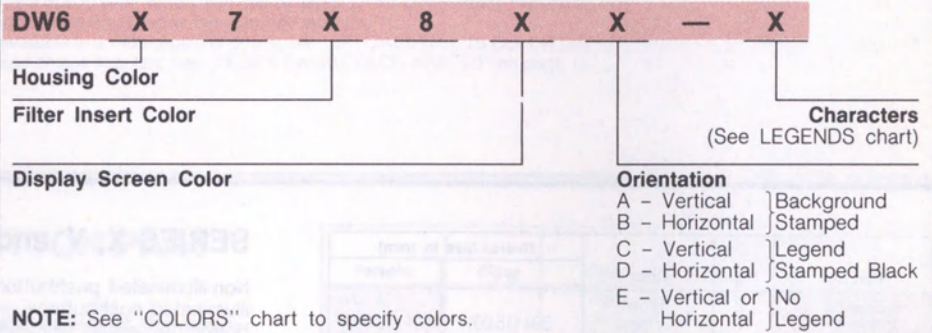


NOTE: See "COLORS" chart below to specify colors.

SERIES DW-678 PUSHBUTTONS

Fig. 14—Color versatile push-buttons are designed to enhance the spectrum of lighting effects available on Series 67000 DW Multi-Switches. Thousands of color variations can be created from choosing different color push-button housings, color filter inserts and display screens. Pushbuttons are .595 in. (15.11 mm) w. x .720 in. (18.29 mm) h. Display screen is .526 in. (13.36 mm) w. x .629 in. (15.98 mm) h.

DW-678 PUSHBUTTON PART NUMBERING



NOTE: See "COLORS" chart to specify colors.

COLORS

Use this chart to specify colors for TDW-F and DW-678 push-buttons.

0 — Transparent ¹	4 — Blue
1 — Red	5 — White
2 — Black ²	7 — Orange
3 — Green	8 — Yellow

NOTES: ¹ Transparent not available on Series DW-678 housing or filter inserts.

² Black not available on Series DW-678 filter inserts.

LEGENDS

Use this chart to specify legends for TDW-F and DW-678 push-buttons.

1 thru 999	A thru ZZZ
. (period)	" (quote)
- (short dash)	— (long dash)
← (arrow)	& (ampersand)
# (number, pound)	/ (slash)
\$ (dollar)	¢ (cent)
(vertical bar)	

SERIES DW-40 COLOR INSERTS

Many unusual lighting effects can be created using DW-40 color inserts. Molded from dimensionally stable, high temperature plastic in six standard colors, inserts slip into std. Series DW-300 push-buttons providing unusual latitude in custom designing color and legend effects. With no wear from finger-tips, legend life is virtually unlimited.

Part No.	Color	Part No.	Color	Part No.	Color
DW-41	Red	DW-44	Blue	DW-47	Orange
DW-43	Green	DW-45	White	DW-48	Yellow

For detailed data on above products, ask for Switchcraft Catalogs 310, 349 and S-325.

NOTE: Contact your Switchcraft Representative for price & delivery.

SPECIAL EFFECTS COLOR DISPLAY SCREENS & INSERTS

Display screens & inserts are offered in a wide choice of colors for **Series 37000 and 38000** littel Multi-Switch switches. Display screens with highlights are useful in high ambient lighting; or

A

Series 401
Display Screen

B

Series 404
Legend Insert recesses into display screen. Omit when split-face inserts are used.

Part No. 404-05

White legend insert has a matte finish on one side suitable for in-the-field marking.

C

Part No. 404-12
Retaining Insert
Clear insert snaps into display screen from rear to retain legend inserts. Omit when split-face inserts are used.

D

Series 407
Split-Face Insert
Use with Series 38000

E

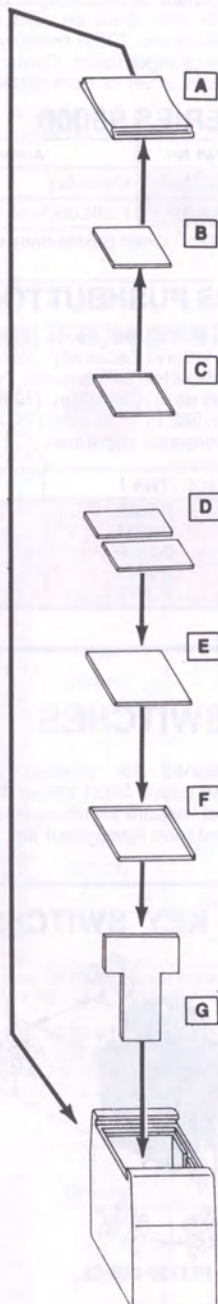
Series 402
Color Filter Inserts
White insert used with blue, white and clear display screens; clear insert used with red, green and yellow. All color filters are omitted where split-face insert is used.

F

Part No. 402-12
Heat Shield Insert
Clear filter insert snaps into pushbutton housing. Must be used in every pushbutton assembly.

G

Part No. 406
Light Divider
Recesses into pushbutton housing. for use with Series 38000.



display screens with soft uniform and diffused lighting for use under low ambient lighting conditions. Order display screens, inserts and filters separately. See Part No. Chart below.

Series 401 DISPLAY SCREENS

Display screens with contoured face give a better operation "feel". Rectangular shape provides greater area for engraving legends and symbols. Entire screen is illuminated by single or twin lamp indication. Various brightness and color combinations are possible by use of legend filter & split face inserts.

SERIES 404 LEGEND INSERTS

Small translucent inserts provide special color effects. White colored insert (**Part No. 404-05**) has special matte surface for in-the-field identification with ink, pencil or lettering transfers. Special color effects can be accomplished with combination of a colored insert with a clear display screen. IMPORTANT: Order legend insert **Part No. 404-12** with every pushbutton.

SERIES 402 FILTER INSERTS

Inserts add greater color definition. Ideal for use under low ambient lighting conditions where brightness of illuminated pushbuttons must be minimized. A white filter insert (**Part No. 402-05**) is useful in cutting down the brightness of a white color insert and a white or clear display screen. However, it is omitted when a color display screen is used. Filters also diffuse light evenly over entire face of display screen with no "hot spots" or darkened corners. IMPORTANT: Order clear insert **Part No. 402-12** for use with every color filter insert. Clear insert snaps in button housing behind a color filter insert and serves as a heat shield.

SERIES 407 SPLIT-FACE INSERTS

Split-face inserts provide separate control or indicating functions through the use of color. Ideal for use on Series 38000 littel Multi-Switch switches where each pushbutton can serve as two indicator lights. Up to two lamps can be used per display screen which are split lengthwise by two-color split-face inserts. Inserts may be hot-stamped. Order **Part No. 406** light divider when "flip-flop" lighting is specified; or for redundant lighting where a definite visual indication of lamp failure is desired. A frequently used combination is red and green. Red might indicate danger, stop, etc. Green, go, "okay", etc. IMPORTANT: Use **Part No. 402-12** clear insert with a split-face insert.

406 LIGHT DIVIDER

A light divider is used in the standard pushbutton housing to separate the illumination from the twin lamps used in the **Series 38000** littel Multi-Switch switches. Order a light divider for every pushbutton station at the Series 38000 where split-face lighting has been specified.

Part No.	Fig.	Color
401-01	A	Red
401-03		Green
401-04		Blue
401-05		White
401-08		Yellow
401-12		Clear
401-16	B	"Black Screen"
404-01		Red
404-02		Black

Part No.	Fig.	Color
404-03	B	Green
404-04		Blue
404-05		White
404-08		Yellow
404-12	C	Clear (retaining insert)
402-01	E	Red
402-03		Green
402-04		Blue
402-05		White

Part No.	Fig.	Color
402-08	E	Yellow
402-12	F	Clear (heat shield insert)
407-01	D	Red
407-03		Green
407-04		Blue
407-05		White
407-08		Yellow
406	G	White (light divider)

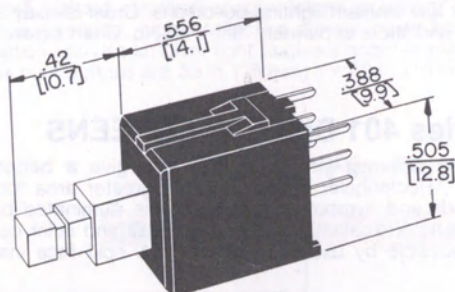
For detailed data on above products, ask for Switchcraft Catalog S-323.

NOTE: Contact your Switchcraft Representative for price & delivery.

Pushbutton Switches

SWITCHCRAFT

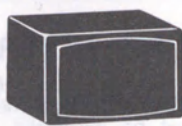
IBS MINIATURE PUSHBUTTON SWITCHES



SERIES 98000



Type I



Type II

Series 98000 IBS switches provide low cost versatility for a wide range of electrical/electronic applications. .130 in. (3.30 mm) by .130 in. (3.30 mm) square plungers accept a full line of industry standard pushbuttons. Switches have .157 in. (4 mm) long PC terminals for mtg. single- or double-sided PC boards up to .094 in. (2.39 mm) thick on .394 in. (10 mm) centers in row or arrays. Ratings are .125 A resistive @ 125 V AC or 28 V DC. .144 in. (3.66 mm) plunger travel. Contactors: beryllium copper. Contacts & Terminals: silver or gold plated.

SERIES 98000

Part No. ¹	Action	Switching	Schematic
982A06	Momentary	DPDT	2-C
987A06	Push-Lock/Push-Release	DPDT	2-C

NOTE: ¹ Order pushbuttons separately.

IBS PUSHBUTTONS

IBS pushbutton faces are concave for operator convenience with full legend capability. Can be mounted horizontally or vertically. Pushbutton dimensions: Type I — .388 in. (9.86 mm) W x .216 in. (5.49 mm) H x .425 in. (10.80 mm) D. Type II — .464 in. (11.79 mm) W x .288 in. (7.32 mm) H x .432 in. (10.97 mm) D. Pushbuttons must be ordered separately.

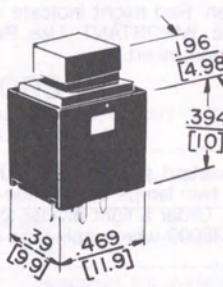
Type I	Type II	Color
P-2936	P-2951	White
P-2937	P-2952	Black
P-2938	P-2953	Red
P-2941	P-2956	Blue
P-2942	P-2957	Gray

MINIATURE KEY SWITCHES

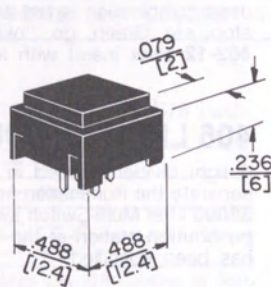
Switchcraft miniature pushbutton switches offer long life for instrumentation, medical electronics, radio & TV and other applications where small size, and high reliability are important design factors. All switches are PC mount type, with precious metal contact surfaces. Some are available with LED illumination. Switches are

designed for modern electronics equipment using semi-conductors. Short stroke, long life, audible "click", positive tactile "feel" assure switch operation. Contacts are self-cleaning with low resistance throughout life.

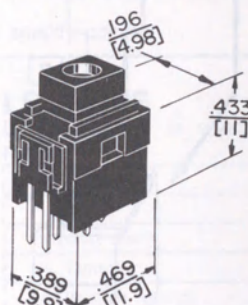
MINIATURE MOMENTARY KEY SWITCHES



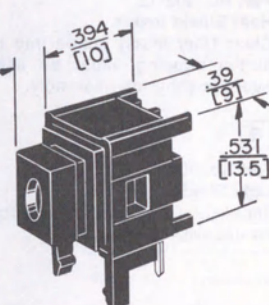
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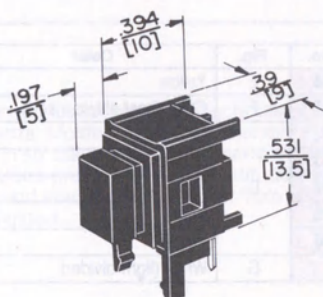
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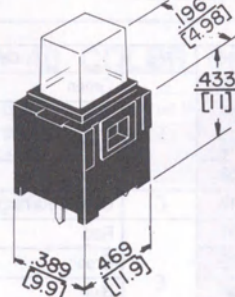
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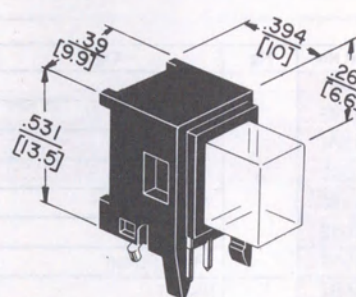
No. P75120-102-02



No. P75120-100-22



No. P75120-057-12



No. P75120-108-01

For detailed data on above products, ask for Switchcraft Catalogs 357 and S-350.

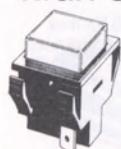
NOTE: Contact your Switchcraft Representative for price & delivery.

MINIATURE KEY SWITCHES (cont'd.) MINIATURE MOMENTARY SWITCHES (cont'd.)

Part No.	Circuits	Rating	Parallel Contacts	Contact Surface	LED Indicator	Snap-in Mount*	Pushbutton Color
P75120-002-02	SPST	.025 A, 30 V DC or AC	Yes	Silver	—	—	Black
P75120-002-22					—	—	Gray
P75120-008-02					—	—	Black
P75120-050-02					Red	—	Black
P75120-057-12					Red	Yes	Clear, Transparent
P75120-100-22					—	Yes	Gray
P75120-102-02					Red	Yes	Black
P75120-108-01					Red	Yes	Red, Transparent

* Legs on switch body "snap" into PC board.

HIGH CURRENT PUSHBUTTON SWITCHES — ILLUMINATED & NON-ILLUMINATED



Series 110P & 1400P (non-illuminated) and 1100PN & 1400PN (illuminated) switches "snap" into 1.07 x .88 in. (27 x 22 mm) panel opening. Features: Up to 15 A switching, 1A or 1A + 1B, locking or momentary action, solder lug or .25 in. quick connect terminals, black housings and selection of button colors. Other European approvals are available. Matching lighted indicators available, Series 1108P (see page 33).

NON-ILLUMINATED

Part Numbers		Circuitry	Action	Terminals	Housing Color	Actuator Color	Ratings	
Series 1100P	Series 1400P						1100P	1400P
1100PB2NR	1400PB2NR	1A ON-OFF	Locking	Solder	Black	Red	1	2
1100PB2NB	1400PB2NB			Lug	Black	White		
1100PB5NR	1400PB5NR			Quick	Black	Red		
1100PB5NB	1400PB5NB			Connect	Black	White		
1124PB2NR	1424PB2NR	1A + 1B ON-OFF & OFF-ON	Locking	Solder	Black	Red	3	4
1124PB2NB	1424PB2NB			Lug	Black	White		
1124PB5NR	1424PB5NR			Quick	Black	Red		
1124PB5NB	1424PB5NB			Connect	Black	White		
1125PB2NR	1425PB2NR		Momentary	Solder	Black	Red		
1125PB2NB	1425PB2NB			Lug	Black	White		
1125PB5NR	1425PB5NR			Quick	Black	Red		
1125PB5NB	1425PB5NB			Connect	Black	White		

- UL** — 10 A, 250V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive load. **VDE** — 10 (4) A, 250V AC; 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC.
- UL** — 10 A, 250 V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive load. **CSA** — Solder Lugs: 18 A, 125 V AC; 12 A, 250 V AC; ¾ hp, 125-250 V AC. Quick Connects: 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC. **VDE** — 15 (6) A, 250 V AC; 10 (6) A, 250 V AC.

- UL** — 10 A, 250 V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive load. **CSA** — 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC. **VDE** — 10 (6) A, 250 V AC.
- UL** — 10 A, 250 V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive load. **CSA** — Solder Lugs: 18 A, 125 V AC; 12 A, 250 V AC; ¾ hp, 125-250 V AC. Quick Connects: 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC. **VDE** — 15 (6) A, 250 V AC; 10 (4) A, 250 V AC.

ILLUMINATED

Part Numbers		Circuitry	Action	Terminals	Housing Color	Actuator Color	Ratings	
Series 1100P	Series 1400P						1100P	1400P
1100PNB2ANKA	1400PNB2ANKA	1A ON-OFF	Locking	Solder	Black	Amber	1	2
1100PNB2ANKR	1400PNB2ANKR			Lug	Black	Red		
1100PNB5ANKA	1400PNB5ANKA			Quick	Black	Amber		
1100PNB5ANKR	1400PNB5ANKR			Connect	Black	Red		
1124PNB2ANKA	1424PNB2ANKA	1A + 1B ON-OFF & OFF-ON	Locking	Solder	Black	Amber		
1124PNB2ANKR	1424PNB2ANKR			Lug	Black	Red		
1124PNB5ANKA	1424PNB5ANKA			Quick	Black	Amber		
1124PNB5ANKR	1424PNB5ANKR			Connect	Black	Red		
1125PNB2ANKA	1425PNB2ANKA		Momentary	Solder	Black	Amber		
1125PNB2ANKR	1425PNB2ANKR			Lug	Black	Red		
1125PNB5ANKA	1425PNB5ANKA			Quick	Black	Amber		
1125PNB5ANKR	1425PNB5ANKR			Connect	Black	Red		

- UL** — 10 A, 250 V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive load. **CSA** — 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC.

- UL** — 10 A, 250 V AC; ¼ hp, 125 V AC; 10 A, 12-28 V DC non-inductive. **CSA** — Solder Lugs: 18 A, 125 V AC; 12 A, 250 V AC; ¾ hp, 125-250 V AC. Quick Connects: 16 A, 125 V AC; 10 A, 250 V AC; ½ hp, 125-250 V AC.

For detailed data on above products, ask for Switchcraft Catalogs 384 and S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

Pushbutton Switches

SWITCHCRAFT

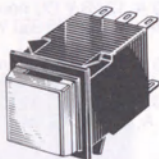
SERIES BXR — MOMENTARY “Box Switch” SWITCHES



Miniature, non-illuminated momentary pushbutton switch offers broad switching capabilities in minimum panel space. Switch only .688 in. (17.48 mm) square. Molded plastic body protects against dust and dirt; prevents bending/disfiguring of contacts caused by excessive handling. Attractive bezel frames switch and acts as a built-in escutcheon plate. “Adjusto-Clip” mounting provides snap-in, front of panel mounting. Pushbuttons have .109 in. (2.77 mm) stroke. Mtg. hole: .620 in. (15.75 mm) sq. Max. Panel Thickness: .047 in. (1.19 mm) to .281 in. (7.14 mm). Ratings: 250 mA, 30 W max. AC non-inductive load. Contacts: brass, silver plated. U.S. Patent Nos. 3,446,467 and 3,419,696.

Part No.	Button Color	Switching	Schematic	Terminals	Behind Panel Depth
BXR-01-1	Red	SPST (N.O.)	1-A	Solder Lug	1.219 (30.96) max. (minus panel thickness)
BXR-01-3		SPDT	1-C		
BXR-01-6		DPDT	2-C		
BXR-01-10		DPST (N.O.) + DPDT	2-A + 2-C		
BXR-02-1	Black	SPST (N.O.)	1-A		
BXR-02-3		SPDT	1-C		
BXR-02-6		DPDT	2-C		
BXR-02-10		DPST (N.O.) + DPDT	2-A + 2-C		
BXR-03-1	Green	SPST (N.O.)	1-A		
BXR-03-3		SPDT	1-C		
BXR-03-6		DPDT	2-C		
BXR-03-10		DPST (N.O.) + DPDT	2-A + 2-C		
BXR-05-1	White	SPST (N.O.)	1-A	PC	1.125 (28.58) max. (minus panel thickness)
BXR-05-3		SPDT	1-C		
BXR-05-6		DPDT	2-C		
BXR-01-3PC	Red	SPDT	1-C		
BXR-01-6PC		DPDT	2-C		
BXR-02-3PC	Black	SPDT	1-C		
BXR-02-6PC		DPDT	2-C		
BXR-05-3PC	White	SPDT	1-C		
BXR-05-6PC		DPDT	2-C		
BXR-05-10PC		DPST (N.O.) + DPDT	2-A + 2-C		

SERIES BXL — “Box Switch” SWITCHES



Miniature momentary or locking pushbutton switches offer lighted or unlighted options in minimum panel space. Molded black plastic housing protects against dust and dirt; prevents bending/disfiguring contacts caused by excessive handling. Bezel frames pushbutton, acting as built-in escutcheon. Mounted in rows or matrices and completely compatible with Series BXR “Box-Switch” switches. Accepts standard incandescent T 1-3/4 wedge base lamps. Mounting and relamping from front of panel. Omit lamp for non-illuminated switch. Lamps not supplied. Order pushbuttons separately from chart.

Mounting hole: .625 in. (15.88 mm) square. Panel thickness: .031 in. (.79 mm) to .093 in. (2.36 mm). Behind panel depth: 1.219 in. (30.96 mm max. minus panel thickness).

Part No.	Action ¹	Switching	Ratings	Contacts	Schematic	Terminals
BXL-123S00	M	SPDT	0.25 A, 125 V AC Resistive	Copper Alloy, Silver Plated	1-C	Solder Lug
BXL-126S00		DPDT			2-C	
BXL-173S00	L	SPDT			1-C	
BXL-176S00		DPDT			2-C	
BXL-123P00	M	SPDT			1-C	PC
BXL-126P00		DPDT			2-C	
BXL-173P00	L	SPDT			1-C	
BXL-176P00		DPDT			2-C	

NOTE: ¹ M = Momentary; L = Locking

SERIES BXL SWITCH PUSHBUTTONS

Part No.	Color	Part No.	Color	Part No.	Color
P-2827	Red	P-2831	Blue	P-2832	Orange
P-2830	Green	P-2828	White	P-2829	Yellow
P-2998	Clear	---	---	---	---

INSERTS

Color inserts are used to provide various hues when used with pushbuttons.

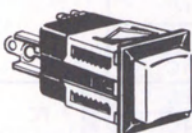
Part No.	Color	Part No.	Color	Part No.	Color
P-2999-1	Red	P-2999-5	White	P-2999-15	Natural
P-2999-3	Green	P-2999-7	Orange	---	---
P-2999-4	Blue	P-2999-8	Yellow	---	---

For detailed data on above products, ask for Switchcraft Catalog S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES US & LUS — "Uniswitch" SWITCHES

Low cost, momentary pushbutton switches are only .688 in. (17.48 mm) square. SERIES US non-illuminated. SERIES LUS illuminated — use only 6 V, 0.5 W, T 1-3/4 bipin lamp Switchcraft **Part No. P-2290** (not supplied with switch). Lamps replaced from front of panel. Both switch series incorporate "Adjusto-Clip" allowing simple "snap-lock" mounting. Solder lug terminals also accept #5-40 screw connections. PC terminals mount in single- or double-sided boards or multilayers. Solder/quick-connect terminals accept AMP Series 110 receptacles. Terminals: Solder lug, PC (PC suffix); quick-connect/solder (ST suffix). Contacts are bronze, silver plated, 250 mA, 30 W max., AC, non-inductive load, 1-A schematic. U.S. Pat. No. 3,446,467.

**NOTES:**

¹ Minus panel thickness.

² Less pushbutton.

REPLACEMENT PUSHBUTTONS

Extra replacement pushbuttons can be ordered separately for Series US & LUS "Uniswitch" Switches.

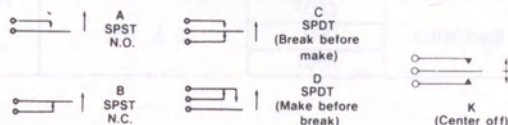
Part No.	Color	Part No.	Color
P-2349-1	Red	P-2349-5	White
P-2349-2	Black	P-2349-8	Yellow
P-2349-3	Green	P-2349-13	Amber
P-2349-4	Blue		

Part No.	Pushbutton Color	Action	Switching	Terminals	Mounting, In. (mm)		
					Hole	Panel Thickness	Behind Panel Depth ¹
US-00-1	²	Momentary	SPST (N.O.)	Solder Lugs	.617 (15.67) square hole	.047 (1.19) min. to .266 (6.76) max.	1.313 (33.35)
US-01-1	Red						
US-03-1	Green						
US-04-1	Blue						
US-05-1	White						
US-08-1	Yellow						
US-00-1PC	²			PC			
US-01-1PC	Red						
US-02-1PC	Black						
US-03-1PC	Green						
US-04-1PC	Blue						
US-05-1PC	White						
US-08-1PC	Yellow			Quick-Connect			
US-13-1PC	Amber						
US-00-1ST	²						
US-01-1ST	Red						
US-02-1ST	Black						
US-03-1ST	Green						
US-04-1ST	Blue						
US-05-1ST	White						
US-08-1ST	Yellow						
US-13-1ST	Amber						

Part No.	Pushbutton Color	Action	Switching	Terminals	Mounting, In. (mm)		
					Hole	Panel Thickness	Behind Panel Depth
LUS-00-1	2	Momentary	SPST (N.O.)	Solder Lugs	.617 (15.67) square hole	.047 (1.19) min. to .266 (6.76) max.	1.313 (33.35) ¹
LUS-01-1	Red						
LUS-03-1	Green						
LUS-04-1	Blue						
LUS-05-1	White						
LUS-08-1	Yellow						
LUS-00-1PC	2			PC			
LUS-01-1PC	Red						
LUS-03-1PC	Green						
LUS-04-1PC	Blue						
LUS-05-1PC	White						
LUS-08-1PC	Yellow						
LUS-13-1PC	Amber			Quick-Connect			
LUS-00-1ST	2						
LUS-01-1ST	Red						
LUS-03-1ST	Green						
LUS-04-1ST	Blue						
LUS-05-1ST	White						
LUS-08-1ST	Yellow						
LUS-13-1ST	Amber						

BASIC SCHEMATIC CIRCUITS

Switch circuitry can be described as combinations of basic schematic circuits as shown below. N.O. means normally open; N.C. means normally closed.



The above are strictly electrical schematics and do not necessarily indicate relative solder lug positions.

For detailed data on above products, ask for Switchcraft Catalog S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

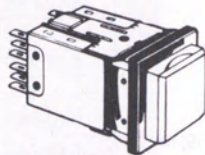
SERIES PL — "Push-Lite" Switches

Completely enclosed, lighted pushbutton switches feature long-life, highly-reliable, leaf-springs. Available with or without barriers, full or split-face display. Mounts with clamp-type bracket; no screws, washers or nuts needed. Can be mounted in vertical or horizontal rows and in matrixes. Accepts standard T 1-3/4 flange-base lamp (not furnished with switch) in either 6 V to 28 V rating. See "LAMPS" on page 13. Specify 1 lamp for single lamp type or 2 lamps for twin-lamp type when redundant or split-face

lighting is required. Barriers and colored filter snap-inserts optional (order separately).

Mtg. hole (w/o barriers): 1 in. (25.4 mm) x .875 in. (22.23 mm); (w/barriers) 1.188 in. (30.16 mm) x .875 in. (22.23 mm). Panel thickness: .125 in. (3.18 mm) max. Behind panel depth 1.75 in. (44.45 mm) (minus panel thickness). U.S. Pat. No. 3,681,552. Canadian Pat. Nos. 949,109 (June 11, 1974) and 940,179 (January 5, 1974).

MOMENTARY

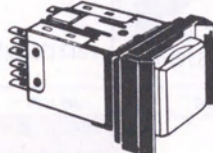


WITHOUT BARRIERS

Part No.	Housing/ Pushbutton Color	Switching	AC Ratings (max.) non-inductive	Contacts	Schematic	Terminals
SINGLE LAMP						
PL-1032-05	Black/White	SPDT	2 A, 125 V	Palladium	1-C	Solder Lug
PL-1062-05		DPDT			2-C	
PL-1122-05		4PDT			4-C	
PL-1262-05	Gray/White	DPDT	8 A, 125 V	Silver	2-C	
PL-4032-05		SPDT			1-C	
PL-4062-05		DPDT			2-C	
PL-4122-05	Black/White	4PDT	2 A, 125 V	Palladium	4-C	PC
PL-7062-05		DPDT			2-C	
PL-7122-05		4PDT			4-C	

TWIN LAMP

PL-2032-05	Black/White	SPDT	2 A, 125 V	Palladium	1-C	Solder Lug
PL-2062-05		DPDT			2-C	
PL-2122-05		4PDT			4-C	
PL-2262-05	Gray/White	DPDT	8 A, 125 V	Silver	2-C	
PL-5032-05		SPDT			1-C	
PL-5062-05		DPDT			2-C	
PL-5122-05	Black/White	4PDT	2 A, 125 V	Palladium	4-C	PC
PL-8032-05		SPDT			1-C	
PL-8062-05		DPDT			2-C	
PL-8122-05		4PDT			4-C	



WITH BARRIERS

PUSH-LOCK/PUSH-RELEASE

Part No.	Housing/ Pushbutton Color	Switching	AC Ratings (max.) non-inductive	Contacts	Schematic	Terminals
SINGLE LAMP						
PL-1037-05	Black/White	SPDT	2 A, 125 V	Palladium	1-C	Solder Lug
PL-1067-05		DPDT			2-C	
PL-1127-05		4PDT			4-C	
PL-1237-05	Gray/White	SPDT	8 A, 125 V	Silver	1-C	
PL-1267-05		DPDT			2-C	
PL-4037-05		SPDT	2 A, 125 V	Palladium	1-C	
PL-4067-05	Black/White	DPDT			2-C	PC
PL-4127-05		4PDT			4-C	
PL-7037-05		SPDT	2 A, 125 V	Palladium	1-C	
PL-7067-05		DPDT			2-C	
PL-7127-05		4PDT			4-C	

TWIN LAMP

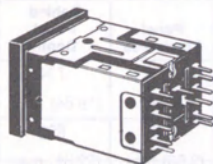
PL-2037-05	Black/White	SPDT	2 A, 125 V	Palladium	1-C	Solder Lug
PL-2067-05		DPDT			2-C	
PL-2127-05		4PDT			4-C	
PL-2267-05	Gray/White	DPDT	8 A, 125 V	Silver	2-C	
PL-5067-05		SPDT			1-C	
PL-5127-05		DPDT			2-C	
PL-8037-05	Black/White	4PDT	2 A, 125 V	Palladium	4-C	PC
PL-8067-05		SPDT			1-C	
PL-8127-05		DPDT			2-C	

For detailed data on above products, ask for Switchcraft Catalog S-345.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES PL — "Push-Lite" SWITCHES (cont'd.)

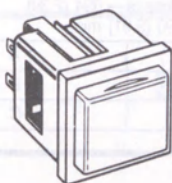
U.L. LISTED, MOMENTARY & PUSH-LOCK/PUSH-RELEASE



Part No.	Housing/ Pushbutton	Action ¹	Switching	AC Ratings (max.) non-inductive	Contacts	Schematic	Listing	Terminals
SINGLE LAMP								
26U-1003	Black/White	M	SPDT	8 A, 125 V	Silver	1-C	U.L.	Solder Lug
26U-1004		M	DPDT	8 A, 125 V		2-C	U.L.	
26U-1007		PL/PR	SPDT	8 A, 125 V		1-C	U.L.	
26U-1008		PL/PR	DPDT	8 A, 125 V		2-C	U.L.	
TWIN LAMP								
26U-1005	Black/White	M	SPDT	8 A, 125 V	Silver	1-C	U.L.	Solder Lug
26U-1006		M	DPDT	8 A, 125 V		2-C	U.L.	
26U-1009		PL/PR	SPDT	8 A, 125 V		1-C	U.L.	
26U-1010		PL/PR	DPDT	8 A, 125 V		2-C	U.L.	

NOTE: ¹ M = Momentary; PL/PR = Push-Lock/Push-Release

SERIES PL-9000 — "PL" INDICATORS



Create unlimited combinations of rows and/or matrix arrays with or without "Push-Lite" switches. A perfect match for front panel appearance of "Push-Lite" switches — but functions only as a lighted indicator. Mounts same as "Push-Lite" switches; behind panel depth 1.341 in. (35.55 mm) max. uses same lamp, color filter, snap inserts, light divider & optional mounting barriers as "Push-Lite" switches.

Part No.	Description
PL-9105	Black housing; uses 1 or 2 lamps. White screen.
PL-9205	Same as No. PL-9105 except gray housing.

PUSHBUTTON/INDICATOR SCREENS

Series PL-500 Pushbuttons/Indicator Screens are available separately for use with "Push-Lite" switches or "PL" Indicators for in-the-field substitution and/or replacement.

Part No.	Color	Part No.	Color
PL-501	Red	PL-508	Yellow
PL-503	Green	PL-512	Clear
PL-504	Blue	PL-513	Amber
PL-505	White		

COLOR FILTER SNAP-INSERTS

Translucent plastic filters for special color coding in "Push-Lite" switch and "PL" Indicators. Use with white or clear pushbuttons.

SERIES PL-300 — Full Display Color Filters		SERIES PL-400 — Split-Face Display Color Filters	
Part No.	Color	Part No.	Color
PL-301	Red	PL-401	Red
PL-303	Green	PL-403	Green
PL-304	Blue	PL-404	Blue
PL-305	White	PL-405	White
PL-308	Yellow	PL-408	Yellow

OPTIONAL MOUNTING BARRIERS

Molded plastic barriers separate "Push-Lite" switches, "PL" Indicators, or combinations of "Push-Lite" switches and "PL" Indicators and prevent accidental operation of adjacent switches. **Series PL-100:** end barrier. **Series PL-200:** center barrier. 2 required between adjacently mounted switches. "Push-Lite" (see BARRIER MOUNT switch on preceding page) switch (below) is shown with 2, Part No. PL-102 end barriers installed. Pkg. of 10.

Part No.	Description
PL-102	End barrier, black
PL-111	End barrier, gray
PL-202	Center barrier, black
PL-211	Center barrier, gray

LIGHT DIVIDER

Light divider for "Push-Lite" switch pushbuttons and "PL" Indicator screens; separates lighting from twin lamps. Order light divider for each switch or indicator specified where split-face lighting is desired.

Switchcraft Part No. PL-551

For detailed data on above products, ask for Switchcraft Catalog S-345.

NOTE: Contact your Switchcraft Representative for price & delivery.

Pushbutton Switches

SWITCHCRAFT

SERIES 903, 913, 923, 933 — MOMENTARY Button Switch SWITCHES



903 & 913



923 & 933

Miniature pushbutton switches are enclosed in metal housing. Terminals: solder lug. Contacts: internal nickel silver, 250 mA, 30 W max., AC, non-inductive. **Series 903, 913:** behind panel mtg. **Series 923, 933:** front mount. All switches: bushing mount.

Part Nos.		Schematic	Mounting, in. (mm)		
Red Button	Black Button		Hole	Panel Thickness	Behind Panel Depth
903	913	1-C	.469	.171	.734
903D	913D	1-D	(11.91)	(4.34)	(18.64) max.
923	933	1-C	.25	.140	.890
923D	933D	1-D	(6.35)	(3.56) max.	(22.61) max.

SERIES 950, 960 — MOMENTARY "Tiny Switch" PUSHBUTTON SWITCHES



Subminiature pushbutton switches for limited space applications. Contacts: integral nickel silver, .25 A, 30 W max., AC, non-inductive load. Recommended only for low level circuit where contact resistance is unimportant. Bushing mount, solder lugs.

Part Nos.		Switching	Schematic
Red Button	Black Button		
Mounting, In. (mm) Hole—.25 (6.35) • Panel Thickness—.094 (2.39) Behind Panel Depth—.390 (9.91) min.			
951	961	SPST (N.O.)	1-A
952	962	SPST (N.C.)	1-B
953	963	SPDT	1-C

SERIES 100, 200 MOMENTARY Littel-Switch SWITCHES



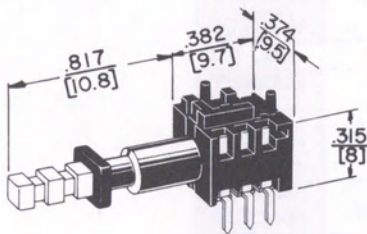
Tiny, bushing-mounted pushbutton switch. Contacts insulated from panel bushing with interlocking phenolic washer. Nickel silver springs for low level circuits where contact resistance is unimportant. Solder lug terminals.

Series 100 & 200: Integral nickel silver contacts, .25 A, 30 W max., AC non-inductive load. **Series 100S & 200S:** Silver contacts, 3 A, 300 W max., AC non-inductive.

Part Nos.		Switching	Schematic
Red Button	Black Button		
Mounting, In. (mm) Hole — .375 (9.52) • Panel Thickness — 25 (6.35) max. Behind Panel Depth — 625 (15.88) min.			
101	201	SPST (N.O.)	1-A
101S	201S	SPST (N.O.)	1-A
102	202	SPST (N.C.)	1-B
102S	202S	SPST (N.C.)	1-B
103	203	SPDT	1-C
103S	203S	SPDT	1-C

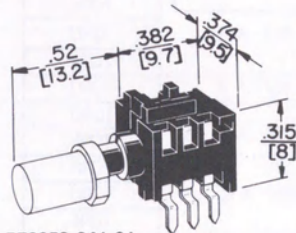
MINIATURE PUSH SWITCHES

No. P70052-005
No. P70052-049



NOTE: ¹ Uses Type II pushbuttons; see page 18.

Part No.	Function	Circuits	Rating	Mounting	Pushbutton Supplied	Pushbutton Color
P70052-005	PL/PR	DPDT	0.5 A, 12 V AC or DC	PC	No ¹	—
P70052-041-01	Mom.	DPDT	0.5 A, 250 V AC	PC	Yes	Red
P70052-049	Mom.	DPDT	0.5 A, 250 V AC	PC	No ¹	—



No. P70052-041-01

For detailed data on above products, ask for Switchcraft Catalog S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES H-100, H-200 — Hi-D Switch SWITCHES



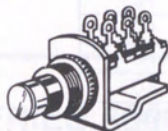
**SERIES
H-100 & H-200**

Compact, momentary action, leaf spring switches designed for circuits where contact resistance is not critical. Molded body protects contact springs. Low electrical leakage, low capacity. One piece plastic button and shaft. Mounting hex nut and flat washer supplied. Series H-100PC & H-200PC are printed circuit types for mounting on single- or double-sided or multilayer boards. Standoff shoulders on terminals provide stable mounting. Ratings: 250 mA, 30 W max., AC non-inductive. Contacts: silver plated.

Part Nos.		Action ¹	Switching	Schematic	Terminals	Mounting, In. (mm)		
Red Button	Black Button					Hole	Panel Thickness	Behind Panel Depth
H-101	H-201	M	SPST (N.O.)	1-A	Solder Lug	.375 (9.52)	.156 (3.96)	1.094 (27.79)
H-103	H-203		SPDT	1-C				
—	H-202PC		SPST (N.O.)	1-B	PC			
H-103PC	H-203PC		SPDT	1-C				

NOTE: ¹ M = Momentary.

SERIES DVR-2000 — DVR Switch SWITCHES



Switches have advanced "dual visual" recognition feature to show switch position, even at a distance. In "OUT" position, a black recognition color band contrasts with the recognition cap color. In "IN" position, only colored recognition cap shows. Mounting centers: .75 in. (19.05 mm) min. For non-turn mounting, bushing has machined slot to mate with keyed panel hole (mounting nut supplied). Order recognition color caps for custom coding from chart below. Mounting hole: .468 in. (11.89 mm) dia. Panel thickness: .219 in. (5.56 mm). Behind panel depth: 2-pole switches — 1.156 in. (29.36 mm) min., 3- or 4-pole switches — 2.031 in. (51.59 mm) min. Solder lug terminals have .078 in. (1.98 mm) dia. hole & wrap-around notches for wiring.

Part No.	Action ¹	Switching	Ratings	Contacts	Schematic	Listing	Terminals
DVR-2203	M	SPDT	0.5 A DC, 3 A AC, 125 V non-inductive	Silver Plated	1-C	U.L. & C.S.A.	Solder Lug
DVR-2206	M	DPDT			2-C		
DVR-2703	L	SPDT			1-C		
DVR-2706	L	DPDT			2-C		
DVR-2712	L	4PDT			4-C		

NOTE: ¹ M = Momentary; L = Locking.

RECOGNITION COLOR CAPS

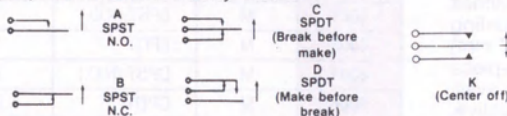


Part No.	Contents
K-132	Asst. Kit: 1 ea. — red, black, green, blue, white, brown and yellow caps.
RC-201	Red cap
RC-202	Black cap
RC-203	Green cap
RC-204	Blue cap
RC-205	White cap
RC-206	Brown cap
RC-208	Yellow cap

Color caps in black and colors are used with Series DVR-2000 switches and are ordered separately. Caps snap onto the keyed plunger of the DVR Switch switches.

BASIC SCHEMATIC CIRCUITS

Switch circuitry can be described as combinations of basic schematic circuits as shown below. N.O. means normally open; N.C. means normally closed.



The above are strictly electrical schematics and do not necessarily indicate relative solder lug positions.

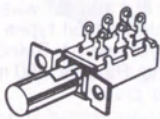
For detailed data on above products, ask for Switchcraft Catalog S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

Pushbutton Switches

SWITCHCRAFT

SERIES PS-5000 AND PS-6000 — Pushswitch PUSHBUTTON SWITCHES



SERIES PS-5000



SERIES PS-6000

Economical, non-illuminated pushbutton switches can be used for all commercial and industrial applications such as computers, radio receivers, transmitters, appliances, production line controls, public address etc., at greatly reduced cost. Lubricated contacts insure continuous wiping action. Molded nylon pushbuttons integral with actuators.

Series PS-5000 — .313 in. (7.95 mm) dia. round pushbutton; **Series PS-6000** — .438 in. (11.13 mm) x .219 in. (5.56 mm) rectangular pushbutton. Solder lug terminals have .078 in. (1.98 mm) dia. hole & wrap-around wiring notches.

Mounting holes: **PS-5000** — 2, .156 in. (3.96 mm) holes with .344 in. (8.74 mm) dial. hole centered between. **PS-6000** — 2, .156 in. (3.96 mm) holes with .937 in. (23.80 mm) centers. .25 in. (6.35 mm) x .468 in. (11.89 mm) rect. hole centered between .156 in. holes. Panel thickness, max., .188 in. (4.78 mm). Behind panel depth: 1.063 in. (27 mm) min.

Part Nos.		Action ¹	Pushbutton Color	Switching	Ratings	Contacts	Schematic	Listings	Terminals
Series PS-5000	Series PS-6000								
PS-5203-01	PS-6203-01	M	Red	SPDT	0.5 A DC; 3 A AC, 125 V non-inductive	Brass, silver plated	1-C	Submitted to U.L.	Solder Lug
PS-5203-02	—		Black	SPDT			1-C		
PS-5206-01	—		Red	DPDT			2-C		
PS-5206-02	—		Black	DPDT			2-C		
PS-5206-04	—		Blue	DPDT			2-C		
PS-5206-05	—		White	DPDT			2-C		
—	PS-6703-01	PL/PR	Red	SPDT			1-C		
PS-5703-02	PS-6703-02		Black	SPDT			1-C		
—	PS-6703-04		Blue	SPDT			1-C		
PS-5703-05	—		White	SPDT			1-C		
PS-5706-01	PS-6706-01		Red	DPDT			2-C		
PS-5706-02	PS-6706-02		Black	DPDT			2-C		
PS-5706-04	—		Blue	DPDT			2-C		
PS-5706-05	PS-6706-05		White	DPDT			2-C		

NOTE: ¹ M = Momentary; PL/PR = Push-Lock/Push-Release.

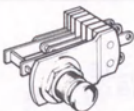
SERIES DA SWITCHES



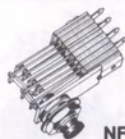
Enclosed, momentary pushbutton switch. Anodized aluminum body protects switch contacts from dirt, dust and from being bent. A-B contact arrangement provides a 1-A, 1-B (or 1-C circuit when externally wired). Integral hard gold plated contacts rated at 500 mA., 50 W max., AC non-inductive load. Terminals accept AMP Series 53 taper pins. Mounts in .375 in. (9.52 mm) hole on .531 in. (13.49 mm) centers. Depth behind panel .938 in. (23.83 mm) min.

Switchcraft Part No. DA-01-3 (Red button)
Switchcraft Part No. DA-02-3 (Black button)

SERIES 1000 — “FF” Switch AND SERIES 4000 — “NF” Switch, NON-LOCKING FLAT FRAME SWITCHES



FF Switch



NF Switch

Flat frame switches offer multiple pole leaf switching with minimum depth behind panel. “NF” switches have same features as “FF” switches except a smaller spring design—ideal for mounting in ultra-compact equipment: only .5 in. (12.7 mm) wide by 1.625 in. (41.28 mm) long. Black one-piece molded shaft and pushbutton; other colors available. Ratings: 5 A, 125 V AC, AC non-inductive, Contacts: silver—Terminals: solder lug.

Part Nos. Series	Action ¹	Switching	Schematic	Mounting, in. (mm)		
				Hole	Panel Thickness	Behind Panel Depth Max.
1001	M	SPST (N.O.)	1-A	.375 (9.52)	.25 (6.35)	.625 (15.88)
1003	M	SPDT	1-C			.625 (15.88)
1004	M	DPST (N.O.)	2-A			.813 (20.65)
1006	M	DPDT	2-C			.875 (22.22)
1009	M	3PDT	3-C			1.125 (28.58)
4001	M	SPST (N.O.)	1-A	.375 (9.52)	.156 (3.96)	.563 (14.3)
4003	M	SPDT	1-C			.75 (19.05)
4004	M	DPST (N.O.)	2-A			.75 (19.05)
4006	M	DPDT	2-C			1 (25.4)
4009	M	3PDT	3-C			1.188 (30.18)

NOTE: ¹ M = Momentary

For detailed data on above products, ask for Switchcraft Catalog S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES 3000 AND 13000 — “Lev-R” SWITCH SWITCHES

2- and 3-position lever action switches require half the space usually needed for a lever switch. Supplied with locknut and screw-on black knob. Contacts: silver, 3 A max., 125 V AC non-inductive load. Solder lug terminals. Series 3000 mounts in panels up to .094 in. (2.39 mm) thick max. Series 13000 mounts in panels up to .25 in. (6.35 mm) thick max.



3000



13000

Part Nos.	Positions	Action ¹	Switching	Schematic		Mounting ⁴
				Pos. 1	Pos. 2	
3001	13001	2	SPST (N.O.)	1-A		Series 3000: in panels up to .094 in. (2.39 mm) thk. max. Series 13000: in panels up to .25 in. (6.35 mm) thk. max.
3003	13003	2	SPDT	1-C		
—	13004	2	DPST (N.O.)	2-A		
3006	13006	2	DPDT	2-C		
—	13009	2	3PDT	3-C		
3033	13033	3	SPDT (N.O.)	1-K ³		
3034	13034	3	SPST (N.O.) ea. pos.	1-A	1-A	
3036	13036	3	SPDT ea. pos.	1-C	1-C	
3037	13037	3	SPDT (N.O.) ea. pos.	2-K ³		
30312	130312	3	DPDT ea. pos.	2-C	2-C	
30313	130313	3	DPDT (N.O.) ea. pos.	4-K ³		
—	13033T	3	SPDT (N.O.)	1-K ³		
—	13037T	3	SPDT (N.O.) ea. pos.	2-K ³		

NOTES: ¹ Add suffix letter “L” to Part No. for locking action (except Nos. 13033T & 13037T).

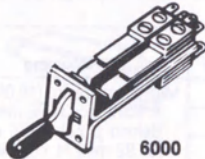
² Inter-communications. Talk-listen switches, lever locks on one side of neutral and operates non-locking on the other side.

³ SPDT (N.O.), center position off.

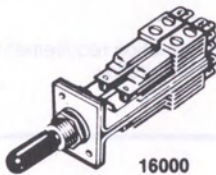
⁴ Switches are .625 in. (15.88 mm) wide, requiring 2.234 in. (51.10 mm) min. depth behind panel. Mounts in single .469 in. (11.91 mm) dia. hole.

SERIES 6000 AND 16000 — “Telever” Switch SWITCHES

Telephone type lever switches have “T-Beam” construction for strength. Available in 2- and 3-positions with locking and non-locking actions. Supplied with black insulated knob. Contacts: welded crossbar palladium, 2 A max., 125 V AC non-inductive load. Solder lugs. Series 6000 mounts with 4 screws in panels up to .25 in. (6.35 mm) thick max. Series 16000 mounts in a single hole in panels up to .25 in. (6.35 mm) thick max.



6000



16000

Part No. 530 Escutcheon Plate. For Series 6000 switches, 4 mtg. screws supplied.

Part No. 540 Stop Plate. For Series 16000 switches. Converts from locking to non-locking action. Includes 2 mtg. screws.

Part No. 545 Stop Plate. For Series 16000 switches. Converts from 3-pos. to 2-pos. Includes 2 mtg. screws.

Part Nos. ¹		Positions	Action ¹	Switching	Schematic		Mounting
					Pos. 1	Pos 2	
6006	16006	2	Momentary	DPDT	2-C		Series 6000: four No. 3-48 machine screws (not supplied). Mtg. centers: .531 in. (13.49 mm) x .813 in. (20.65 mm) in panels up to .25 in. (6.35 mm) thk. max. Series 16000: single hole mtg. .469 in. (11.91 mm)/.32 threaded bushing. Mounts in .5 in. (12.7 mm) dia. hole in .25 in. (6.35 mm) thk. panel max.
—	16008	2		4PST (N.O.)	4-A		
60012	160012	2		4PDT	4-C		
—	160024	2		8PDT	8-C		
6036	16036	3		SPDT Ea. Pos.	1-C	1-C	
—	16038	3		DPST (N.O.) Ea. Pos.	2-A	2-A	
60312	160312	3		DPDT Ea. Pos.	2-C	2-C	
—	160312D	3		DPDT Ea. Pos.	2-D	2-D	
—	160316	3		4PST (N.O.) Ea. Pos.	4-A	4-A	
60324	160324	3		4PDT Ea. Pos.	4-C	4-C	

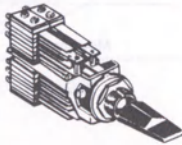
NOTE: ¹ Add suffix letter “L” to Part No. for locking action.

For detailed data on above products, ask for Switchcraft Catalog S-313.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES 41000 — "LT Switch" SWITCHES

Telephone-type lever switch available in 2- or 3-pos., locking and non-locking. Special damping block guards against transient leaf bounce. "Can't Cheat" detent guide prevents accidental actuator by-pass of switching positions. Contacts: welded crossbar palladium, 2 A max., 125 V AC non-inductive load. Solder lugs. U.S. Patent No. 3,433,906, Canadian Pat No. 850,234 (Aug. 25, 1970)

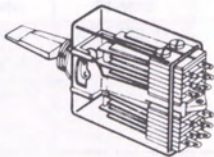


Part Nos. ¹	Positions	Action ¹	Switching	Schematic		Mounting
				Pos. 1	Pos. 2	
41203	2	Momentary	SPDT	1-C		.469 in. (11.91 mm) dia. hole in panels up to .25 in. .25 in. (6.35 mm) thk.
41206	2		DPDT	2-C		
41212	2		4PDT	4-C		
41306	3		SPDT Ea. Pos.	1-C	1-C	
41312	3		DPDT Ea. Pos.	2-C	2-C	
41324	3		4PDT Ea. Pos.	4-C	4-C	

NOTE: ¹ Add suffix letter "L" to Part No. for locking action.

MOLDED DUST COVERS

Molded Dust Covers protect and electrically insulates "LT Switch" switches. Protects against moisture, dust, dirt, contamination. Guards against tampering and accidental damage of springs/contacts. Hi-temp, molded Lexan polycarbonate plastic. Reinforced corners and walls.

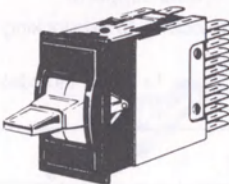


Part No.	Description
P-2360	Used on non-locking and locking versions of Part Nos. 41203, 41206, 41306, 41308, 41312
P-2362	Used on non-locking and locking versions of Part Nos. 41208 and 41324.

SERIES 84000 — "Lever-Lite" III ILLUMINATED LEVER SWITCHES

Excellent illuminated lever switch for front panel mounting. Available in 2- and 3-pos. types with locking, non-locking and talk-listen functions and a variety of circuit forms. Lever illumination is multi-color; 2-pos. switches have AMBER color (NEUTRAL position) and GREEN (DOWN position). 3-pos. switches have RED (UP position), AMBER (NEUTRAL) and GREEN (DOWN position). (Color filters are interchangeable). Switch uses 1, T 1-3/4 flange base lamp (not supplied). See page 13 for lamp data.

Contacts: welded cross bar palladium, 2 A, 200 W max., AC non-inductive load. Solder lug terminals. U.S. Pat. Nos. 3,727,020 and 3,821,533. Canadian Pat. Nos. 972,791 (Aug. 12, 1975) and 990,330 (June 1, 1976).



Part Nos. ¹	Positions	Action ¹	Switching	Schematic		Mounting
				Pos. 1	Pos. 2	
84206	2	Momentary	DPDT	2-C		Mtg. hole: .75 in. (19.05 mm) x 1.375 in. (34.92 mm). Behind panel: 1.375 in. (34.92 mm) H x .75 in. (19.05 mm) W x 2.109 in. (53.57 mm) D. (Less panel thickness) max.
84212	2		4PDT	4-C		
84306	3		SPDT Ea. Pos.	1-C	1-C	
84312	3		DPDT Ea. Pos.	2-C	2-C	
84324	3		4DPT Ea. Pos.	4-C	4-C	

NOTE: ¹ Add suffix letter "L" to Part No. to indicate locking action.

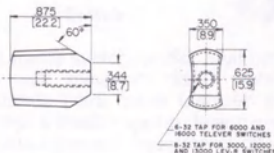
K-131 COLOR FILTER KIT

Kit is available for changing or replacing color filters to meet your illumination requirements. Each kit contains 3 filters of each color: Amber, Blue, Green, Red, White and Yellow.

Switchcraft Part No. K-131

KNOBS FOR LEVER SWITCHES

Series M-1066 — "tear drop" knobs have a 6-32 thread for use on Series 6000, 16000, 41000. **Series T-1083** — "tear drop" knobs have a 8-32 thread for use on Series 3000, 13000. **Series M-1177** — "contour" knobs have a 8-32 thread for use on Series 3000, 13000. **Series M-1178** — "contour" knobs have a 6-32 thread for use on Series 6000, 16000, 41000. **Series M-1360** — "paddle" knobs have a 6-32 thread for use on Series 6000, 16000, 41000.



CONTOUR KNOB

Part No.	Color	Part No.	Color	Part No.	Color
M-1066-1	Red	M-1177-15	White	M-1360-2	Black
M-1066-2	Black	M-1178-1	Red	M-1360-4	Blue
M-1066-5	White	M-1178-2	Black	M-1360-5	White
M-1177-1	Red	M-1178-15	White	T-1083-1	Red
M-1177-2	Black	M-1360-1	Red	T-1083-2	Black

For detailed data on above products, ask for Switchcraft Catalog S-313.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Cradle-Switch" SWITCHES



Switches hold WECo and other standard telephone industry hand-sets. Housing withstands shocks and vibrations. Housing includes hook switch with a 4-C (4PDT) contacts. Switch has nickel silver springs with welded gold cross bar contacts rated at 1A, 125 V AC. Ideal for use in critical low level audio circuits, i.e., in communication and instrumentation applications.

Part No.	Description
14412G	Black housing 4-C (4PDT) circuit.
14512G	As above, except beige.
14612G	As above, except white.

SERIES ED — "Cord-Switch" CORD SWITCHES



Switch has a satin nickel finish with red or black pushbutton. Black neoprene relief bushing accepts cables up .25 in. (6.35 mm) dia. Housing: .75 in. (19.05 mm) dia., 3 in. (76.20 mm) lg. Momentary action switches have SPDT (1-C) switching; silver contacts, and solder lugs. Ratings: 250 mA, 30 W max., AC, non-inductive.

Switchcraft Part No. ED-903 (red button)
Switchcraft Part No. ED-913 (black button)

SERIES E AND EP "Cord-Switch" CORD SWITCHES

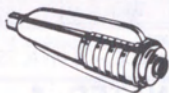


Nickel-plated or black molded plastic housing encloses Series 903 and 913 Button switches providing a cord-mounted or pendant switch. Only .688 in. (17.48 mm) in diameter and approx. 2.188 in. (55.58 mm) long makes for easy "hand-held" switch operation. Max., cable dia.: E-903, E-913 — .375 in. (9.53 mm); EP-903, EP-913 — .25 in. (6.35 mm).

Part No.		Action	Schematic
Red Button	Black Button		
E-903	E-913	SPDT, Break-Make	1-C
EP-903	EP-913		

NOTE: ¹ Series E—nickel plated housing; Series EP—black molded plastic housing.

"CORDETTE" Switch PENDANT SWITCHES

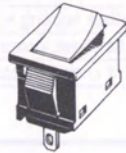


Small, light weight pendant (cord) switches provide remote switching of industrial and commercial instrumentation and control devices. 1-piece, grey molded plastic body protects contacts from environment. Overall dim.: 1.188 in. (30.18 mm) wide by 2.938 in. (74.63 mm) lg. (not including cable). Integral brass, hard gold plated contacts. Cordette not recommended for use in high voltage circuits. **No. 921** has phono jack cable receptacle. Mates with cables having phono plugs. **No. 921K** has 6 ft. of 2-cond. unshielded cable molded to body; other end leads stripped & tinned.

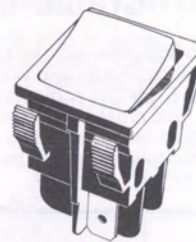
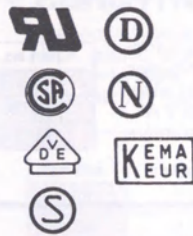
Part No.	Action	Switching	Ratings
921	Momentary	SPST	500 mA, 50 W max. AC non-inductive
921K			

For detailed data on above products, ask for Switchcraft Catalogs S-313c and S-350.

NOTE: Contact your Switchcraft Representative for price & delivery.



Series 100



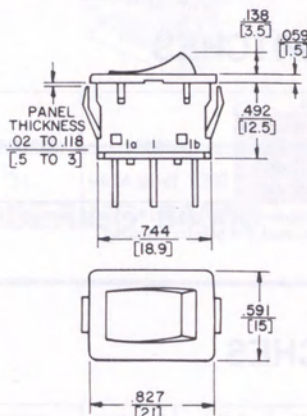
Series 300



New, high current rocker switches and matching indicators snap into panel openings for new and retrofit/replacement applications. Most switches/indicators are UL, CSA and VDE listed and most have additional European approvals (see individual part nos. for approvals.) Illuminated or non-illuminated, 2- and 3-position switches with locking action are available. A wide range of circuitry, terminals and colors are also available.

SERIES 100 — SINGLE POLE, 2- & 3-POSITION NON-ILLUMINATED ROCKER SWITCHES

UL, CSA and VDE approved switches have up to 8 A switching; 1A, 1C or 1K circuitry; solder or .187 in. quick connect terminals; locking action; and black or white housings and rockers. Additional approvals include: SEMKO (Sweden), DEMKO (Denmark), and NEMKO (Norway). Snaps into .75 in. (19 mm) x .51 in. (13 mm) panel openings from front. Switches match Series 109 indicator lights (page 33). Dim.: .744 in. long x .508 in. wide x .492 in. behind panel (excluding terminals).



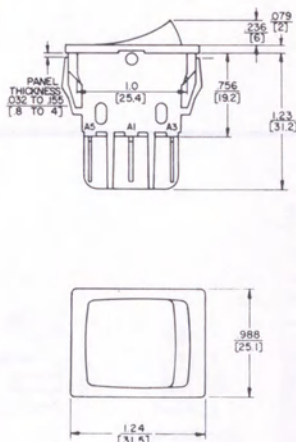
Part No.	Circuitry	Terminals	Housing Color	Rocker Color	Current Rating
100B2NN	1A, ON-OFF	Solder Lug	Black	Black	1
100B2BB	1A, ON-OFF		White	White	1
102B2NN	1C, ON-ON		Black	Black	1
102B2BB	1C, ON-ON		White	White	1
104B2NN	1K, ON-OFF-ON		Black	Black	2
104B2BB	1K, ON-OFF-ON		White	White	2
100B98NN	1A, ON-OFF	Quick Connect	Black	Black	1
100B98BB	1A, ON-OFF		White	White	1
102B98NN	1C, ON-ON		Black	Black	1
102B98BB	1C, ON-ON		White	White	1
104B98NN	1K, ON-OFF-ON		Black	Black	2
104B98BB	1K, ON-OFF-ON		White	White	2

NOTES: ¹ UL & CSA — 8 A, ¼ hp, 250 V AC; 8 A, 12 V DC non-inductive load.

² UL & CSA — 5 A, ½ hp, 250 V AC; 5 A, 12 V DC non-inductive load. VDE — 6 (4) A, 250 V AC.

SERIES 300 — SINGLE & DOUBLE POLE, 2-POSITION NON-ILLUMINATED & ILLUMINATED ROCKER SWITCHES

UL, CSA and VDE approved switches provide up to 16 A switching; 1A, 2A or 2C circuitry; .25 in. quick connect terminals; locking action; and black, white, red or amber rockers. Additional approval: KEMA-EUR (Netherlands). Snaps into .88 in. (22 mm) x 1.18 in. (30 mm) panel openings from front. NOTE: Illuminated switches are not VDE approved. Switches match Series 109 indicator lights (page 32). Dim.: 1.24 in. long x .988 in. wide x 1.23 in. behind panel depth (excluding terminals).



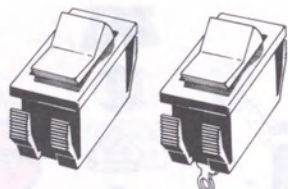
Part Nos.	Circuitry	Housing Color	Rocker Color	Illum.	Current Ratings
300B5NN	1A, ON-OFF	Black	Black	No	1
300B5BB	1A, ON-OFF	White	White		1
310B5NN	2A, ON-OFF	Black	Black		1
310B5BB	2A, ON-OFF	White	White		1
312B5NN	2C, ON-ON	Black	Black		1
312B5BB	2C, ON-ON	White	White		1
300NB5ANKR	1A, ON-OFF	Black	Red	Yes	2
300NB5ANKA	1A, ON-OFF	Black	Amber		2
300NB5ABKR	1A, ON-OFF	White	Red		2
300NB5ABKA	1A, ON-OFF	White	Amber		2
310NB5ANKR	2A, ON-OFF	Black	Red		2
310NB5ANKA	2A, ON-OFF	Black	Amber		2
310NB5ABKR	2A, ON-OFF	White	Red		2
310NB5ABKA	2A, ON-OFF	White	Amber		2

NOTES: ¹ UL & CSA — 12 A, ½ hp, 125-250 V AC; 12 A, 28 V DC non-inductive load. VDE — 16 (4) A, 250 V AC.

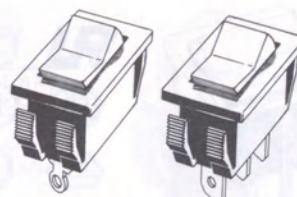
² Same as No. 1 above except no VDE rating.

For detailed data on above products, ask for Switchcraft Catalog S-335.

NOTE: Contact your Switchcraft Representative for price & delivery.



Series 1300 & 1600

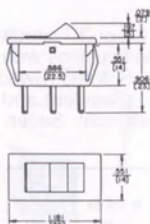


Series 1300U & 1600U



(applied for)

SERIES 1300 & 1600 — SINGLE POLE, 2-POSITION NON-ILLUMINATED & ILLUMINATED ROCKER SWITCHES

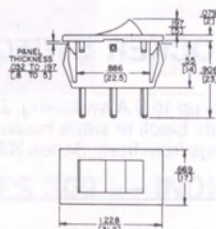


UL, CSA and VDE approved switches have up to 16 A switching; 1A or 1C circuitry; solder lug or .25 in. quick connect terminals; locking action; and black or white housings with black, white, red or amber rockers. Additional approvals: SEMKO (Sweden) and France. Additional Series 1300 approvals: DEMKO (Denmark), NEMKO (Norway), Switzerland, and BSI-BEAB (Great Britain). Snaps into 1.07 in. (27 mm) x .48 in. (12 mm) panel openings from front. Switches match Series 1109 indicator lights (page 33). Ratings: Series 1300 Non-illuminated — UL, 10 A, 1 hp, 250 V AC; 10 A, ½ hp, 125 V AC; 8 A, 28 V DC non-inductive load. CSA, 10 A, ½ hp, 125-250 V AC. VDE, 10(2.5) A, 250 V AC. Series 1600 Non-Illuminated — UL, 12 A, 1 hp, 250 V AC; 16 A, ½ hp, 125 V AC; 10 A, 28 V DC non-inductive load. CSA, 15 A, ½ hp, 125-250 V AC. VDE, 15 A, 250 V AC (no ratings for 2C circuitry). Series 1300 Illuminated — Same as Series 1300 except no VDE. Series 1600 Illuminated — Same as 1600 except no VDE.

Part Numbers Non-Illuminated		Circuitry	Terminals	Housing ¹ & Rocker Color	Part Numbers Illuminated		Circuitry	Terminals	Housing ¹ Color	Rocker ¹ Color
1300B2NN	1600B2NN	1A, ON-OFF	Solder	B	1300NB2ANKR	1600NB2ANKR	1A, ON-OFF		B	R
1300B2BB	1600B2BB	1A, ON-OFF	Lug	W	1300NB2ANKA	1600NB2ANKA	1A, ON-OFF	Solder	W	A
1300B5NN	1600B5NN	1A, ON-OFF	Quick	B	1300NB2ABKR	1600NB2ABKR	1A, ON-OFF	Lug	B	R
1300B5BB	1600B5BB	1A, ON-OFF	Connect	W	1300NB2ABKA	1600NB2ABKA	1A, ON-OFF		W	A
1302B2NN	1602B2NN	1C, ON-ON	Solder	B	1300NB5ANKR	1600NB5ANKR	1A, ON-OFF		B	R
1302B2BB	1602B2BB	1C, ON-ON	Lug	W	1300NB5ANKA	1600NB5ANKA	1A, ON-OFF	Quick	W	A
1302B5NN	1602B5NN	1C, ON-ON	Quick	B	1300NB5ABKR	1600NB5ABKR	1A, ON-OFF	Connect	B	R
1302B5BB	1602B5BB	1C, ON-ON	Connect	W	1300NB5ABKA	1600NB5ABKA	1A, ON-OFF		W	A

NOTE: ¹ B = Black, W = White, R = Red, A = Amber.

SERIES 1300U & 1600U — SINGLE POLE, 2-POSITION NON-ILLUMINATED & ILLUMINATED ROCKER SWITCHES



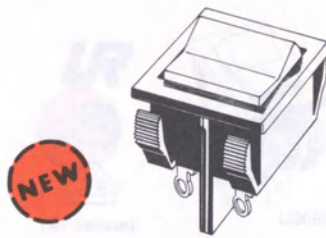
UL approved (CSA & VDE applied for) switches provide up to 16 A switching; 1A or 1C circuitry; solder lug or .25 in. quick connect terminals; locking action; and black or white housings with black, white red or amber rockers. Snaps into 1.125 in. (28.58 mm) x .55 in. (13.97 mm) panel openings from front. Switches match Series 1009U indicator lights (page 33). Ratings: UL, 10 A, ½ hp, 125 V AC; 10 A, 1 hp, 250 V AC; 8 A, 28 V DC non-inductive load. Series 1600U — 16 A, ½ hp, 125 V AC; 12 A, 1 hp, 250 V AC; 10 A, 28 V DC non-inductive load.

Part Numbers Non-Illuminated		Circuitry	Terminals	Housing ¹ & Rocker Color	Part Numbers Illuminated		Circuitry	Terminals	Housing ¹ Color	Rocker ¹ Color
1300UB2NN	1600UB2NN	1A, ON-OFF	Solder	B	1300UNB2ANKR	1600UNB2ANKR	1A, ON-OFF		B	R
1300UB2BB	1600UB2BB	1A, ON-OFF	Lug	W	1300UNB2ANKA	1600UNB2ANKA	1A, ON-OFF	Solder	B	A
1300UB5NN	1600UB5NN	1A, ON-OFF	Quick	B	1300UNB2ABKR	1600UNB2ABKR	1A, ON-OFF	Lug	B	R
1300UB5BB	1600UB5BB	1A, ON-OFF	Connect	W	1300UNB2ABKA	1600UNB2ABKA	1A, ON-OFF		B	A
1302UB2NN	1602UB2NN	1C, ON-ON	Solder	B	1300UNB5ANKR	1600UNB5ANKR	1A, ON-OFF		B	R
1302UB2BB	1602UB2BB	1C, ON-ON	Lug	W	1300UNB5ANKA	1600UNB5ANKA	1A, ON-OFF	Quick	B	A
1302UB5NN	1602UB5NN	1C, ON-ON	Quick	B	1300UNB5ABKR	1600UNB5ABKR	1A, ON-OFF	Connect	B	R
1302UB5BB	1602UB5BB	1C, ON-ON	Connect	W	1300UNB5ABKA	1600UNB5ABKA	1A, ON-OFF		B	A

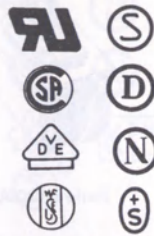
NOTE: ¹ B = Black, W = White, R = Red, A = Amber.

For detailed data on above products, ask for Switchcraft Catalog S-335.

NOTE: Contact your Switchcraft Representative for price & delivery.



Series 1310 & 1610

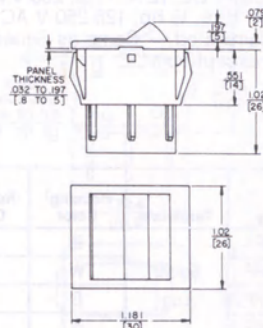


Series 2000



SERIES 1310 & 1610 — DOUBLE POLE, 2-POSITION NON-ILLUMINATED & ILLUMINATED ROCKER SWITCHES

UL, CSA and VDE approved switches have up to 15 A switching; 2A or 2C circuitry; solder lug or .25 in. quick connect terminals; locking action; and black or white housings with black, white, red or amber rockers. Additional approvals: Series 1310 — France, SEMKO (Sweden), DEMKO (Denmark) and NEMKO (Norway). Series 1610 — France, SEMKO (Sweden) and Switzerland. Snaps into 1.07 in. (27 mm) x .88 in. (22 mm) panel openings from front. Series 1310 & 1610 rocker switches match Series 1108P indicator lights (page 33).



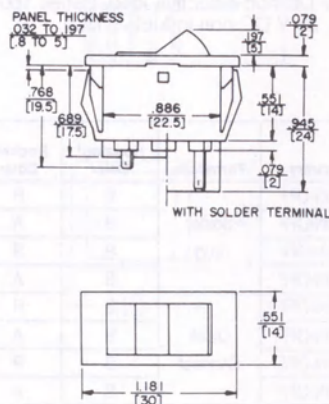
Part Numbers		Circuitry	Terminals	Housing Color	Rocker Color	Illum.	Current Ratings	
Series 1310	Series 1610						1310	1610
1310B2NN	1610B2NN	2A, ON-OFF	Solder	Black	Black	No	1	2
1310B2BB	1610B2BB	2A, ON-OFF	Lug	White	White			
1310B5NN	1610B5NN	2A, ON-OFF	Quick Connect	Black	Black			
1310B5BB	1610B5BB	2A, ON-OFF	Quick Connect	White	White			
1312B2NN	1612B2NN	2C, ON-ON	Solder	Black	Black			
1312B2BB	1612B2BB	2C, ON-ON	Lug	White	White			
1312B5NN	1612B5NN	2C, ON-ON	Quick Connect	Black	Black	Yes	3	4
1312B5BB	1612B5BB	2C, ON-ON	Quick Connect	White	White			
1310NB2ANKR	1610NB2ANKR	2A, ON-OFF	Solder Lug	Black	Red			
1310NB2ANKA	1610NB2ANKA	2A, ON-OFF		Black	Amber			
1310NB2ABKR	1610NB2ABKR	2A, ON-OFF		White	Red			
1310NB2ABKA	1610NB2ABKA	2A, ON-OFF	Quick Connect	White	Amber			
1310NB5ANKR	1610NB5ANKR	2A, ON-OFF	Quick Connect	Black	Red			
1310NB5ANKA	1610NB5ANKA	2A, ON-OFF		Black	Amber			
1310NB5ABKR	1610NB5ABKR	2A, ON-OFF		White	Red			
1310NB5ABKA	1610NB5ABKA	2A, ON-OFF	Quick Connect	White	Amber			

NOTES: ¹ UL — 10 A, 1 hp, 250 V AC; 8 A, 28 V DC non-inductive load. CSA — 10 A, ½ hp, 125-250 V AC. VDE — 10(2.5) A, 250 V AC.
³ Same as No. 1 above except no VDE

² UL — 12 A, 1 hp, 250 V AC; 10 A, 28 V DC non-inductive load. CSA — 15 A, ½ hp, 125-250 V AC. VDE — 15(4) A, 250 V AC.
⁴ Same as No. 2 above except no VDE

SERIES 2000 — DOUBLE POLE, 2-POSITION NON-ILLUMINATED ROCKER SWITCHES

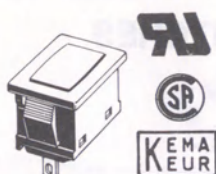
UL, CSA, VDE and SEMKO (Sweden) approved switches provide up to 6 A switching; 2A or 2C circuitry; solder lug or .110 quick connect terminals; locking action; black or white housings and rockers. Snaps into 1.07 in. (27 mm) x .48 in. (12 mm) panel openings from front. Series 200 rocker switches match Series 1109 indicator lights (page 33).



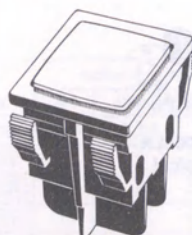
Part Numbers	Circuitry	Terminals	Housing & Rocker Color	Current
2010STDB2NN	2A, ON-OFF	Solder	Black	UL — 6 A, ½ hp, 125 V AC; 3 A ½ hp, 250 V AC; 6 A, 12 V DC non-inductive load.
2010STDB2BB	2A, ON-OFF	Lug	White	
2010STDB10NN	2A, ON-OFF	Quick Connect	Black	
2010STDB10BB	2A, ON-OFF	Quick Connect	White	CSA — 6 A, ½ hp, 125 V AC; 3 A, ½ hp, 250 V AC; 6 A, 12 V DC non-inductive load.
2012STEB2NN	2C, ON-ON	Solder	Black	VDE — 4 A, 250 V AC.
2012STDB2BB	2C, ON-ON	Lug	White	
2012STDB10NN	2C, ON-ON	Quick Connect	Black	
2012STDB10BB	2C, ON-ON	Quick Connect	White	

For detailed data on above products, ask for Switchcraft Catalog S-335.

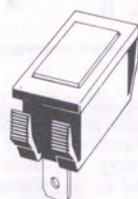
NOTE: Contact your Switchcraft Representative for price & delivery.



Series 109



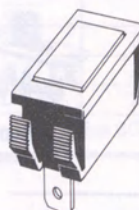
Series 309



Series 1109



Series 1108P



Series 1109U

SERIES 109 — INDICATOR LIGHTS

Indicators have 125 V AC neon lamps with series resistors, solder lug or .110 quick connect terminals, and black or white housings with red or amber lenses. Snaps into .75 in. (19 mm) x .51 in. (13 mm) panel openings from front. UL and CSA ratings: 125-250 V AC. Also KEMA-EUR approved. Indicators match Series 100 rocker switches (page 30).

Part Number	Terminals	Housing Color	Rocker Color
109NB2ANKR	Solder Lug	Black	Red
109NB2ANKA		Black	Amber
109NB2ABKR		White	Red
109NB2ABKA	.110 in. Quick Connect	White	Amber
109NB98ANKR		Black	Red
109NB98ANKA		Black	Amber
109NB98ABKR		White	Red
109NB98ABKA		White	Amber

SERIES 309 — INDICATOR LIGHTS

Indicators have 125 V AC neon lamps and series resistors, quick connect terminals, and black or white housings with red or amber lenses. Snaps into .88 in. (22 mm) x 1.18 in. (30 mm) panel openings from front. UL rating: 125-250 V AC. Additional approvals applied for: France, SEMKO (Sweden), Switzerland, DEMKO (Denmark), NEMKO (Norway), KEMA-EUR (Netherlands) and BSI-BEAB (Great Britain). Indicators match Series 300 rocker switches (page 30).

Part Number	Terminals	Housing Color	Rocker Color
309NB5ANKR	.25 in. Quick Connect	Black	Red
309NB5ANKA		Black	Amber
309NB5ABKR		White	Red
309NB5ABKA		White	Amber

SERIES 1108P — INDICATOR LIGHTS

Indicators have 125 V AC neon lamps with series resistors, quick connect terminals, and black or white housings with red or amber lenses. Snaps into 1.07 in. (27 mm) x .88 in. (22 mm) panel openings from front. UL rating: 125-250 V AC. Indicators match Series 1310 and 1610 rocker switches (page 31).

Part Number	Terminals	Housing Color	Rocker Color
1108PNB5ANKA	.25 in. Quick Connect	Black	Amber
1108PNB5ANKR		Black	Red
1108PNB5ABKA		White	Amber
1108PNB5ABKR		White	Red

SERIES 1109 — INDICATOR LIGHTS

Indicators have 125 V AC neon lamps with series resistors, quick connect terminals, and black housings with red or amber lenses. Snaps into 1.07 in. (27 mm) x .48 in. (12 mm) panel openings from front. UL rating: 125-250-380 V AC. Indicators match Series 1300, 1600 and 2000 rocker switches (pages 31 & 32).

Part Number	Terminals	Housing Color	Rocker Color
1109FNB5ANKR	.25 in. Quick Connect	Black	Red
1109FNB5ANKA		Black	Amber

SERIES 1109U — INDICATOR LIGHTS

Indicators have 125 V AC neon lamps with series resistors, quick connect terminals, and black housings with red or amber lenses. Snaps into 1.125 in. (28.58 mm) x .55 in. (13.97 mm) panel openings from front. UL rating: 125-250 V AC. Indicators match Series 1300U and 1600U rocker switches (page 32).

Part Number	Terminals	Housing Color	Rocker Color
1109UFNB5ANKR	.25 in. Quick Connect	Black	Red
1109UFNB5ANKA		Black	Amber

For detailed data on above products, ask for Switchcraft Catalog S-335.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES 46000E AND 46000R

2-POSITION GENERAL PURPOSE SLIDE SWITCHES



46000E
Typical



46000MR
Typical



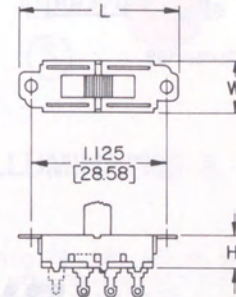
46000LR
Typical



46000MBR
Typical



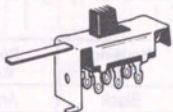
46000LSE
Typical



46000LFE
Typical



46000LFR
Typical



46000MP
Typical

Series 46000E — Features molded glass-filled nylon terminal boards for excellent mechanical stability, high leakage resistance, high temperature tolerance, flame retardance & self extinguishing characteristics. All have non-shorting contacts except No. 46206LSE. Standard knob height .344 in. (8.74 mm); knob color: black.

Series 46000R — Features fibre surfaced phenolic insulation. Standard knob height .344 in. (8.74 mm); knob color: black. Non-shorting contacts.

Mounting (all switches except "C" prefix): .140 in. (3.56 mm) dia. holes spaced on 1.125 in. (28.58 mm) centers. For terminals refer to TERMINAL DATA chart on page 39. "C" prefix, no mtg. ears and .078 in. (1.98 mm) P.C. terminals. U.S. Patent Nos. 3,502,825 (exc. 46204MBR) and 3,485,966.

Part Numbers		Action ¹	Switching	Schematic ¹⁰	Dimensions In. (mm)		
Series 46000E	Series 46000R				Length L	Width W	Height ⁷ H
Ratings—0.5 A DC & 3 A AC, 125 V, non-inductive ⁶ (also 1.5 A, 250 V, non-inductive for Series 46000E only). Listings ⁹ —U.L. and C.S.A. listed (U.L. card E40668, C.S.A. card 28260).							
46201ME	46201MR	M	SPST (N.O.)	I	1.375 (34.92)	.531 (13.49)	.297 (7.54)
46202LE	46202LR	L	SPST	II			
46202ME	—	M	SPST (N.C.)	II	—	—	—
46203LE	46203LR	L	SPDT	III	1.375 (34.92)	.531 (13.49)	.297 (7.54)
—	C46203LR ⁸	L	SPDT	III			
—	46203MR	M	SPDT	III			
46204LE	46204LR	L	DPST	2-I	1.375 (34.92)	.531 (13.49)	.328 (8.33)
—	46204MBR ²	M	DPST (N.O.)	2-IV			
—	46204MR	M	DPST (N.O.)	2-1	1.375 (34.92)	.531 (13.49)	.297 (7.54)
46206LE	46206LR	L	DPDT	2-III			
—	C46206LR ⁸	L	DPDT	2-III			
46206LFE ³	46206LFR ^{3,6}	L	DPDT	2-III			
—	C46206LFR ^{3,6,8}	L	DPDT	2-III	—	—	—
46206LSE	—	L	DPDT	2-III	1.375 (34.92)	.531 (13.49)	.297 (7.54)
46206ME	46206MR	M	DPDT	2-III			
—	46206MP ⁴	M	DPDT	2-III	1.302 (33.07)	.531 (13.49)	.481 (12.22)
46256LFE ^{3,5}	46256LFR ^{3,5,6}	L	DPDT	2-V	1.375 (34.92)	.531 (13.49)	.297 (7.54)

NOTES: ¹ M = momentary; L = locking.

² Pushbutton actuator, .344 in. (8.74 mm) knob, U.L. or C.S.A.

³ For power selection; 115-230 legend, screwdriver slot actuator (no knob).

⁴ 1.125 in. (28.58 mm) plunger & extruded & tapped #6-32 mtg. holes.

⁵ Shorting bars installed.

⁶ Not designed to switch more than 125 V; must be set to desired position before applying power.

⁷ Dimensions are for Series 46000R only. For Series 46000E add .141 in. (3.58 mm).

⁸ "C" prefix specifies .078 in. (1.98 mm) PC terminals — no mounting ears.

⁹ 46000R switches, C.S.A. marked on special order only.

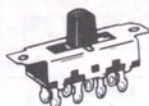
¹⁰ See SCHEMATIC CHART on page 39.

For detailed data on above products, ask for Switchcraft Catalog S-330.

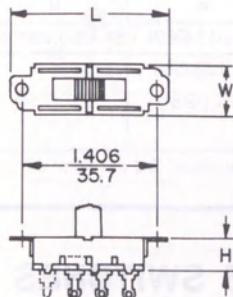
NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES 46000R — 3-POSITION GENERAL PURPOSE SLIDE SWITCHES

Positive center detent. All have shutter type dust cover to prevent dirt and dust from contaminating switch. Contacts: non-shorting. Mounting: 2, .140 in. (3.56 mm) dia. holes on 1.406 in. (35.71 mm) centers. For terminals, see TERMINAL DATA chart on page 39. U.S. Patent 3,485,966.



46000R
Typical



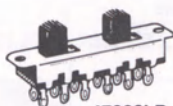
Part No.	Action-Positions			Switching	Schematic ²	Dimensions In. (mm)		
	#1	Center	#2			Length (L)	Width (W)	Height (H)
Ratings—0.5 A DC & 3 A AC 125 V non-inductive • Listings—UL & CSA Listed (UL Card E40668; CSA Card 28260)								
46311LDR	L	L	L	SPTT	VI	1.656 (42.06)	.531 (13.49)	.328 (8.33)
46311MDR	M	L	M	SPTT	VI			
46311TDR	L	L	M	SPTT	VI			
46313LDR	L	L	L	DPTT	2-VI			
46313MDR	M	L	M	DPTT	2-VI			
46313TDR	L	L	M	DPTT	2-VI			

NOTES: ¹ M = Momentary; L = Locking.

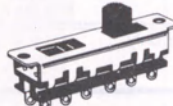
² See SCHEMATIC CHART on page 39.

SERIES 47000 E & 47000R — 2-POSITION TANDEM SLIDE SWITCHES

Space saving 2-gang switches in one housing. Series 47000E has molded glass-filled nylon insulation. Series 47000R has fibre surfaced phenolic insulation. Contacts: non-shorting. U.S. Patent No. 3,485,966 (all Series 47000R). See TERMINAL DATA chart on page 39. Mounting: 2, .140 in. (3.56 mm) dia. holes spaced on 1.937 in. (49.20 mm) centers. Black knobs.



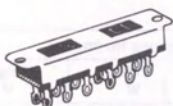
47206LR
Typical



47206LCE
Typical



47227LFE
Typical



47227LFR
Typical

Part No.	Schematic ⁶		Dimensions In. (mm)		
			Length (L)	Width (W)	Height (H)
Action—Locking • Switching—DPDT-DPDT • Ratings—0.5 A DC, 3 A AC, 125 V non-inductive Listings ⁵ —UL & CSA (UL card E40668, CSA card 28260)					
47206LR	2-III	2-III	2.156 (54.76)	.531 (13.49)	.297 (7.54)
47206LCE ^{1,3}	2-III	2-III	2.156 (54.76)	.531 (13.49)	.438 (11.12)
47206LCR ³	2-III	2-III	2.156 (54.76)	.531 (13.49)	.297 (7.54)
47227LFE ^{1,4}	2-III	2-III	2.156 (54.76)	.531 (13.49)	.438 (11.12)
47227LFR ^{2,4}	2-III	2-III	2.156 (54.76)	.531 (13.49)	.297 (7.54)

NOTES: ¹ Series 47000E also has 1.5 A, 250 V AC rating.

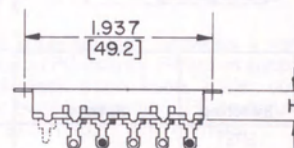
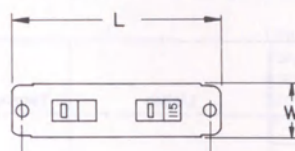
² Switch is not designed to **switch** more than 125 V; must be set to desired position before applying power.

³ 1, .344 in. (8.74 mm) high knob and 1, flush actuator, internal coupling.

⁴ 2 slotted screwdriver actuators flush with housing; internal coupling.

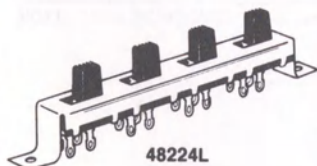
⁵ Series 47000R switches are C.S.A. marked on special order only.

⁶ See SCHEMATIC CHART on page 39.



SERIES 48000 — 4-POSITION GANG SLIDE SWITCHES

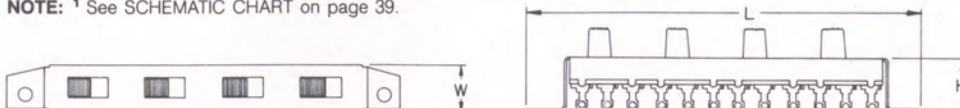
Four-gang switches with independent knobs. Standard knob height: .344 in. (8.74 mm). Other knob heights, including coupled, flush knobs, available on special order. Contacts: non-shorting. Black knobs. For terminals, see TERMINAL DATA chart on page 39. Mounting: 2, .153 in. (3.87 mm) dia. holes on 4.062 in. (103.2 mm) centers.



48224L
Typical

Part No.	Action	Switching	Schematic ¹	Dimensions in. (mm)		
				Length (L)	Width (W)	Height (H)
• Ratings —0.5 A DC & 3 A AC, 125 V non-inductive • Listings —Not submitted to UL.						
48224L	Locking	4PDT	8-III	4.5 (114.3)	.531 (13.49)	.594 (15.09)

NOTE: ¹ See SCHEMATIC CHART on page 39.



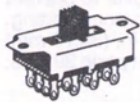
For detailed data on above products, ask for Switchcraft Catalog S-330.

NOTE: Contact your Switchcraft Representative for price & delivery.

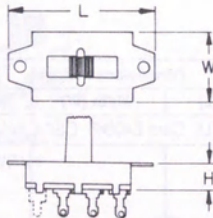
Slide Switches

SWITCHCRAFT

SERIES 49000 — 3-POSITION GENERAL PURPOSE SLIDE SWITCHES



49000L
Typical



3- and 4-pole switching. Standard mounting clearances are .141 in. (3.58 mm). Knob height: .5 in. (12.7 mm). Contacts: non-shorting. Mounting: 2, .140 in. (3.56 mm) dia. holes on 1.406 in. (35.71 mm) centers. Black knobs. Terminals: see TERMINAL DATA chart on page 39.

Part No.	Action	Switching	Schematic ²	Dimensions In. (mm)		
				Length L	Width W	Height H
Ratings—0.5 A DC & 3 A AC, 125 V, non-inductive • Listings ¹ —UL and CSA (UL Card E40668, CSA Card 28260)						
49309L	Locking	3PTT ³	3-III	1.656 (42.06)	.781 (19.84)	.297 (7.54)
49329L		3PTT	3-VI			
49331L		4PTT	4-VI			

NOTES: ¹ C.S.A. listed switches available on special order only.

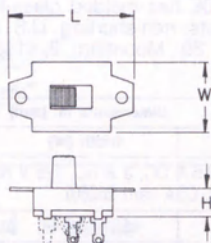
² See SCHEMATIC CHART on page 39.

³ 3 pole, triple throw; 3rd position "off".

SERIES 50000 — 2-POSITION GENERAL PURPOSE SLIDE SWITCHES



50000L & 50000M
Typical



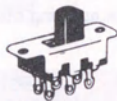
Larger switch with 3 and 4 poles of switching. .344 in. (8.74 mm) high black knobs are standard. Contacts: non-shorting. For terminals, see TERMINAL DATA chart on page 39. Mounting: 2, .140 in. (3.56 mm) dia. holes on 1.125 in. (28.58 mm) centers.

Part No.	Action ¹	Switching	Schematic ²	Dimensions In. (mm)		
				Length L	Width W	Height H
Ratings —0.5 A DC & 3 A AC, 125 V, non-inductive Listings¹ —UL & CSA (UL Card E40668, CSA Card 28260)						
50207L	L	3PST	3-I	1.375 (34.92)	.781 (19.84)	.297 (7.54)
50208L	L	4PST	4-I			
50209L	L	3PDT	3-III			
50209M	M	3PDT	3-III			
50212L	L	4PDT	4-III			

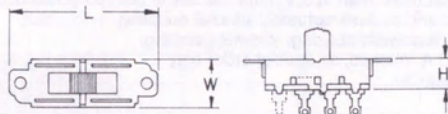
NOTES: ¹ Series 50000L switches are C.S.A. marked on special order only.

² See SCHEMATIC CHART on page 39.

SERIES 58000 — 2-POSITION HEAVY DUTY SLIDE SWITCHES



No. 58206L



A quality, heavy duty slide switch with black molded nylon knob and steel, zinc-plated housing. Contacts — copper alloy, silver clad. Mounting: 2 — .140 (3.56 mm) dia. holes spaced on 1.125 in. (28.58 mm) centers.

Part No.	Action ¹	Switching	Ratings	Schematic ²	Listing	Terminals	Dimensions In. (mm)		
							Length L	Width W	Height H
58202L	L	SPST	6 A AC, 125 V non-inductive	II	U.L. listed U.L. Card E40668	Note 3	1.375 (34.92)	.531 (13.49)	.297 (.754)
58203L	L	SPDT		III					
58204L	L	DPST		2-I					
58206L	L	DPDT		2-III					
58203M	M	SPDT		III					

NOTES: ¹ M = momentary; L = locking.

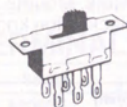
² See SCHEMATIC CHART on page 39.

³ See TERMINAL DATA chart on page 39.

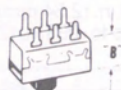
For detailed data on above products, ask for Switchcraft Catalog S-330.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES 56200, C56200, 56300 AND C56300 — 2- AND 3-POSITION "Tini-Slide" MINIATURE SLIDE SWITCHES

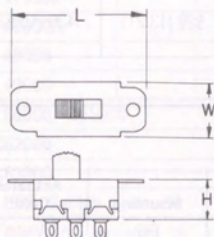


56206L1

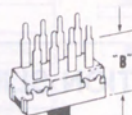


C56206L1

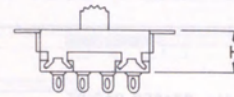
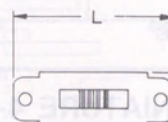
Switches have exclusive SNAP SLIDE lifting/wiping action combining best features of "snap" and "slide" movements. Molded terminal boards prevent solder, flux and other contaminants from entering switch around terminals. Solder lug types mount with machine screws or rivets (not incl.). PC terminals have standoff shoulders for mounting to boards. Black knobs are .187 in. (4.75 mm) high. "C" prefix—no mounting ears. Contacts: non-shorting. Silver contacts. U.S. Patent No. 3,947,391.



56313L1



C56313L2



Part No.	Switching	Schematic ²	Terminals	"B" Dim. In. (mm)	Mounting, In. (mm)		Behind Panel Distance (Min.), In. (mm)	Above Board Distance (Max.), In. (mm)	Dimensions In. (mm)		
					Holes	Spacing			Length L	Width W	Height H
Action ¹ —L • Ratings—0.5 A, 125V AC or DC, non-inductive											
56206L1	DPDT	2-III	Solder	—	.100 (2.54)	.812 (20.62)	.59 (14.99)	—	1.00	.400	.295
56206L2			Solder	—	.100 (2.54)	.812 (20.62)	.441 (11.20)	—	(25.4)	(10.16)	(7.49)
C56206L1			PC	.573 (14.55)	—	—	—	.573 (14.55)	.625	.400	.295
C56206L2			PC	.352 (8.94)	—	—	—	.352 (8.94)	(15.88)	(10.16)	(7.49)
56313L1	DPTT	3-VI	Solder	—	.100 (2.54)	1.000 (25.40)	.602 (15.29)	—	1.190	.400	.307
56313L2			Solder	—	.100 (2.54)	1.000 (25.40)	.453 (11.51)	—	(30.23)	(10.16)	(7.80)
C56313L1			PC	.585 (14.85)	—	—	—	.585 (14.86)	.800	.400	.307
C56313L2			PC	.364 (9.24)	—	—	—	.364 (9.25)	(20.32)	(10.16)	(7.80)

NOTES: ¹ L = Locking action.

² See Schematic Chart on page 39.

SERIES C62000 — 2-POSITION MINIATURE SLIDE SWITCHES WITH SIDE KNOBS



C62206L

Unusual side knob actuator provides a very low profile. Saves valuable space on PC boards. Switches supplied without mounting ears. Molded black nylon knob. Slider contacts are phosphor bronze, silver plated. Mounting: PC terminals located on .181 in. (4.60 mm) x .272 in. (6.91 mm) centers.

Part No.	Action	Switching	Ratings	Schematic ¹	Terminals	"B" Dim. In. (mm)	Dimensions In. (mm)		
							Length L	Width W	Height H
C62206L	Locking	DPDT	0.5 A, 125 V AC or DC	2C	Brass, silver plated	.363 (9.22)	.625 (15.88)	.400 (10.16)	.285 (7.24)

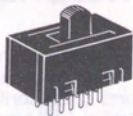
NOTE: ¹ See SCHEMATIC CHART on page 39.

For detailed data on above products, ask for Switchcraft Catalog S-330.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES C63000

2-POSITION, 4-POLE MINIATURE SLIDE SWITCHES



C63212L

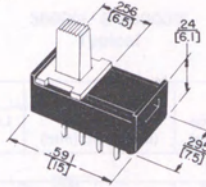
C63000 switches designed for applications, such as: instrumentation, test and ground support equipment, computers, data communications and medical equipment. PC mounting on standard industry .100 in. (2.54 mm) x .200 in. (5.08 mm) centers. Mounts on PC boards up to .093 in. (2.36 mm) thick. Molded black nylon knob.

Part No.	Action	Switching	Ratings	Schematic ¹	Terminals	"B" Dim. In. (mm)	Dimensions In. (mm)		
							Length L	Width W	Height H
C63212L	Locking	4PDT	300 mA max. 30 V AC	4-III	Brass, gold plating on contact area, tinned on terminal end	.487 (12.37)	.924 (23.47)	.520 (13.21)	.430 (10.92)

NOTE: ¹ See SCHEMATIC CHART on page 39.

MINIATURE 4-POSITION SLIDE SWITCHES

No. P74650-013-05



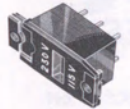
Part No.	Circuitry	Ratings	Mounting	Actuator Color
P74650-013-05	SP4T	100 mA, 30 V DC	PC	White

SERIES EPS1, EPS2

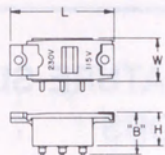
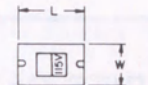
2-POSITION EUROPEAN LINE VOLTAGE SELECTOR SWITCHES



EPS1-SL1

EPS1-PC1
EPS1-PC2

EPS1-PC3

EPS2-PC1
EPS2-PC2

EPS2-PC3



Switches designed for quick, easy programming selection of 115 V — 230 V primary power in electrical/electronic equipment for the international marketplace. Series EPS1 has mounting ears; Series EPS2 mounts by straight or right angle PC terminals only. Legends: 115V-230V. Contacts: non-shorting. U.S. Patent No. 4,180,712. All switches have locking action, and switching is DPDT. Ratings: 2 A, 250 V AC & 4 A, 125 V AC. Schematic 2-III. UL & CSA listed (UL card E40668; CSA card 28260). VDE (Verband Deutscher Elektrotechniker) listed — 2 A, 250 V AC (card 13707). Switches are designed to comply with CEE and IEC requirements. See SCHEMATIC CHART on p. 39.

Part No.	Terminals	"B" Dim. In. (mm)	Mounting, In. (mm)		Dimensions, In. (mm)		
			Holes	Spacing	Length L	Width W	Height H
EPS1-PC1	Straight PC	.681 (17.297)	.130 (3.30)	1.34 (33.98)	1.614 (41.00)	.650 (16.51)	.641 (16.28)
EPS1-PC2	Straight PC	.719 (18.263)					
EPS1-PC3	Right Angle PC	—					
EPS1-SL1	Solder Lug	—	N/A	N/A	1.070 (27.18)	.650 (16.51)	.641 (16.28)
EPS2-PC1	Straight PC	.730 (18.542)					
EPS2-PC2	Straight PC	.768 (19.507)			1.070 (27.18)	.650 (16.51)	1.099 (27.92)
EPS2-PC3	Right Angle PC	—					

For detailed data on above products, ask for Switchcraft Catalog S-330.

NOTE: Contact your Switchcraft Representative for price & delivery.

TERMINAL DATA

Silver-plated terminals are standard; gold plated terminals are available on special order. Printed circuit terminals in varying lengths from ("A" dim.) .078 in. (1.98 mm) to 1.25 in. (31.75 mm) are available on special order. See chart and illustration for selection of terminals.

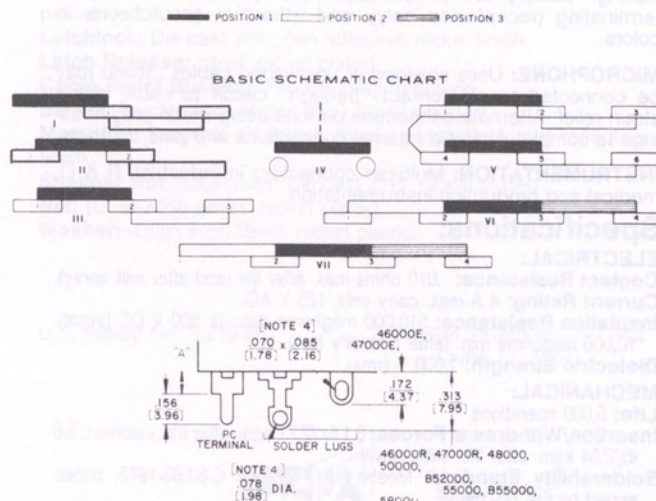
TERMINALS

Series	Notes	Series	Notes
46000E	1	50000	1,3
46000R	1,3	51000E	1
47000E	1	B52000	1
47000R	1,3	55000	1
48000	2	B55000	1
49000	1	58000	2
56000, C56000	See page 37 for terminal data		
C62000	See page 37 for terminal data		
C63000	See page 38 for terminal data		
EPS Switch	See page 38 for terminal data		

NOTES: 1 PC terminal "A" dimension is:
Std. — .078 in.
Special — .109, .141, .160, .180, .203, .234, .266, .313, .391, .400, .484, .609, .688, .719, .813, .969, 1.25.
2 PC terminals not recommended.
3 .078 in. (1.98 mm) "A" dimension not recommended for momentary switches.
4 Accepts wire up to #14 AWG.

SCHEMATIC CHART

Standard arrangement is "break" before "make" (non-shorting). "Make" before "break" (shorting) is available, on special order on Series 46000R, 47000R, 48000, 49000, 50000.



For detailed data on above products, ask for Switchcraft Catalog S-330.

NOTE: Contact your Switchcraft Representative for price & delivery.

Tini "Q-G" Miniature Audio and General Purpose Connectors

SWITCHCRAFT

TINI "Q-G" CONNECTORS

Miniature connectors are ideal for use with slim lavalier microphones and miniature instrumentation. Features: 4 series of plugs and receptacles: 3, 4, or 5 pins/contacts; full cable clamp and flex relief; "Through-Connector" shielding; latch locking; polarized mating; "scoop-proof" pin protection; panel/chassis & P.C. board terminating (receptacles only); and attractive escutcheons in colors.

MICROPHONE: Uses shielded or unshielded cables. Shield may be connected to pin/contact "through" circuit to cable clamp strain relief. Alternate connection permits using metal plug housings to completely shield internal connections and pins/contacts.

INSTRUMENTATION: Multi-pin connecting in industrial, R & D, medical and production instrumentation.

Specifications:

ELECTRICAL:

Contact Resistance: .010 ohms max. after life (and after salt spray).

Current Rating: 4 A max. carry only, 125 V AC.

Insulation Resistance: 510,000 megohms min. @ 500 V DC (initial); 10,000 megohms min. (after humidity test).

Dielectric Strength: 1,000 V (rms).

MECHANICAL:

Life: 5,000 operations.

Insertion/Withdrawal Forces: 6.1 lb./2.77 kgm. after life, insertion; 5.6 lb./2.54 kgm. after life, withdrawal.

Solderability Standard: Meets EIA 178/ANSI C-83.93-1973; superseded by EIA RS-186-9E.

Mechanical Shock: Meets MIL-STD-202E, method 213B.

Vibration: Meets MIL-STD-202E, method 201A.

ENVIRONMENTAL

Thermal Range: -55°C to +85°C.

Humidity: Meets MIL-STD-202E, method 106D.

Thermal Shock: Meets MIL-STD-202E, method 107D.

Specifications (cont'd.)

Salt Spray: Meets MIL-STD-202E, method 101.

MATERIAL

Housing: Plugs & Male Receptacles—Brass, nickel plated.

Female Receptacle—Die-cast zinc, nickel plated.

Pin & Socket Contacts: Copper alloy, silver plated.

Flex Relief: Molded black thermoplastic elastomer.

Latch Button: Molded black thermoplastic.

Release Lever & Mounting Washer: Steel, nickel plated.

Standoff/Ground Terminal & Cable Clamp: Steel, electroplated.

Inserts & Insulating Spacer: Molded, high strength thermoplastic.

Latch (Female): Beryllium copper, nickel plated.

Mounting Nut: Brass, nickel plated.

CABLE SIZES: Uses cables up to .115 in. (2.92 mm) dia. when flex relief bushing is used. By omitting bushing Series T(*)FL & T(*)ML only — cables up to .17 in. (4.32 mm) dia. can be used.

MATING: Tini "Q-G" connectors may be connected to Switchcraft "Q-G", QGP and other similar connectors by using Switchcraft Series TA Adapters.

Series TA(*)F & TA(*)FL—straight cord plugs (3, 4 or 5 contacts), nickel finish, neoprene parts. 1.9 in. (48.3 mm) lg.; 1.4 in. (35.56 mm) lg. for Series TA(*)FL, only .413 in. (10.5 mm) housing dia.

Series TA(*)M & TA(*)ML—cord plugs .204 in. (5.18 mm) lg.; 1.535 in. (39 mm) lg. for Series TA(*)ML, only .413 in. (10.5 mm) housing dia.

Series TB(*)M—receptacle designed for chassis/panel mtg. Specially designed flange permits close (front) mtg. on crowded panels. Terminals accommodate wire leads, #21 AWG solid or #24 AWG stranded or PC termination.

Series TY(*)F & TY(*)FPC—receptacles mount in min. space from front or rear. Receptacles have separate grounding lug. Series TY(*)F solder lugs, #18 AWG solid or #20 AWG stranded. Series TY(*)FPC: PC terminals.

CORD PLUGS

Part Nos.	Insert Contacts	Dim. In. (mm)	
		Length	Dia.
TA3F	3	1.9 (48.3)	.413 (10.5)
TA4F	4		
TA5F	5		
TA3FL	3	1.4 (35.56)	
TA4FL	4		
TA5FL	5		
TA3M	3	.204 (5.18)	
TA4M	4		
TA5M	5		
TA3ML	3	1.535 (39.0)	
TA4ML	4		
TA5ML	5		

RECEPTACLES

Part Nos.	Insert Contacts	Receptacle Mtg. Dim., In. (mm)	
		Length	Dia.
TB3M	3	.703 (17.86)	Front Mount .25 (6.35) max.
TB4M	4		
TB5M	5		
TY3F	3	.978 (24.84)	Front Mount .375 (9.5) Rear Mount .093 (2.3)
TY4F	4		
TY5F	5		
TY3FPC	3	.933 (23.7)	Front Mount .312 (7.9) Rear Mount .093 (2.3)
TY4FPC	4		
TY5FPC	5		

TYEF ESCUTCHEONS

Part No.	Color
TYEF-02	Black
TYEF-04	Blue

Color escutcheons used with Series TY(*)F and TY(*)FPC receptacles for coding or quick recognition (rear mount receptacles only).

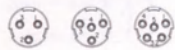
For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.



Series TA(*)F,
TA(*)FL

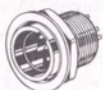
INSERT ARRANGEMENTS



Terminal View of Pins



Series TA(*)M,
TA(*)ML



Series TB(*)M



Series TY(*)F,
TY(*)FPC



Series TYEF

PROFESSIONAL AUDIO CONNECTORS

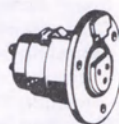
Designed for "pros", PA manufacturers, sound contractors, microphone manufacturers, and radio and TV broadcasters, QGP Professional Audio Connectors offer design innovations:

- "Vel-Tone" Finish—visually distinctive, non-reflective exterior finish, does away with glare, even under strong lights, complements the matte finish that microphone manufacturers are supplying with their products;
- Inserts—high strength glass-filled phenolic;
- Barrels—stainless steel, female connectors only;
- Female Contacts—phosphor bronze, 50 microinches gold over 50 microinches of nickel plating for environmental protection and low, stable contact resistance;
- Male Pins—brass with 50 microinches of gold over 50 microinches of nickel plating;
- Heavy gold contact plating for low contact resistance;
- Latch Lock—rugged die-cast for positive latching action;
- "Captive Design" Insert Screw—stable and reliable connections during shock/vibration.
- Cable Clamp Screws—stainless steel;
- Grounding/Shielding—Same as "Q-G" connectors. See page 42. 3-pin/contact connectors offer 4-pin/contact versatility when "Grounding Terminal" is used. Also mates with 3-pin/contact Switchcraft "Q-G" connectors.

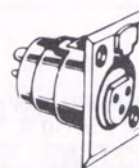
(*) Indicates number of pins/contacts.



QGP-3-22



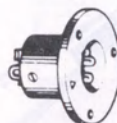
QGP-3-26



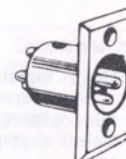
QGP-3-62



QGP-3-23



QGP-3-27



QGP-3-63

QGP-(*)-22 CORD PLUGS

Professional female cord plug, positive latch lock mates with QGP-3-23, QGP-3-31, QGP-3-63 and equiv. Switchcraft "Q-G" connectors. Overall length 3.219 in. (81.76 mm); dia. .75 in. (19.05 mm).

Switchcraft No. QGP-3-22 (3 contacts)

QGP-(*)-23 CORD PLUGS

Male plug, same features as QGP-(*)-22, except no latch lock. Mates with QGP-(*)-22, QGP-(*)-30, QGP-(*)-62 and other connectors with similar contact arrangements. Overall length 2.781 in. (70.64 mm); dia. .75 in. (19.05 mm).

Switchcraft No. QGP-3-23 (3 pins)

QGP-(*)-26 RECEPTACLES

Female receptacle with latch release for panel/chassis mtg., up to .25 in. (6.35 mm) thick. 1.438 in. (36.83 mm) dia. Pin extension .25 in. (6.35 mm) max. Barrel length 1.109 in. (28.17 mm). Uses Part No. P-2479. Mtg. screws supplied separately. Mounts with 3, #5-40 screws (not supplied).

Switchcraft No. QGP-3-26 (3 contacts)

Specifications

Shell: Die-cast zinc, non-reflective Vel-Tone finish.

Insert Insulation: High strength, reinforced thermoset plastic.

Socket Contacts: Phosphor bronze, 50 microinch gold (over 50 microinch nickel) plated.

Pin Contact: Brass, 50 microinch gold (over 50 microinch nickel) plated.

Latchlock: Die-cast zinc, non-reflective nickel finish.

Latch Release: Steel, nickel plated.

Cable Relief Bushing: Flexible gray neoprene.

Barrel: (Female connectors only) Stainless steel.

Mounting Screws: Stainless steel, passivated, non-reflective finish.

Spanner Nut: (QGP-3-28) Die-cast zinc, nickel plated.

Nut: (QGP-3-29) Brass, nickel plated.

Washer: (QGP-3-29) Steel, nickel plated.

U.S. Patent No. 3,219,961

Canadian Patent No. 761,114
(June 13, 1967)

QGP-(*)-27 RECEPTACLES

Similar to QGP-3-26 except male-type and no latch release. 1.438 in. (36.83 mm) dia. Pin extension .281 in. (7.14 mm) max. Barrel length .813 in. (20.65 mm). Mounts with 3, #4 screws (not supplied).

Switchcraft No. QGP-3-27 (3 contacts)

QGP-(*)-62 RECEPTACLES

Rectangular flange for close mounting on panels/chassis. Mates with QGP-(*)-23 and similar. Flange—1.063 in. (27.01 mm) x 1.438 in. (36.83 mm); Barrel—1.203 in. (30.56 mm) overall; Pin extension .25 in. (6.35 mm). Holes: .136 in. (3.45 mm) use Switchcraft No. P-2480 mounting screws (supplied separately). Mounts with 2, #5-40 flat head screws (not supplied).

Switchcraft No. QGP-3-62 (3 contacts)

QGP-(*)-63 RECEPTACLES

Male version of QGP-(*)-62; uses same mtg. screws. Mates with QGP-(*)-22 and similar plugs. Dim.: Flange—.875 in. (22.22 mm) x 1.438 in. (36.83 mm); Barrel—.813 in. (20.65 mm) overall; Terminal extension .281 in. (7.14 mm). Mounts with 2, #5-40 flat head screws (not supplied).

Switchcraft No. QGP-3-63 (3 contacts)

For detailed data on above products, ask for Switchcraft Catalog C-502

NOTE: Contact your Switchcraft Representative for pricing.

"Q-G" AUDIO CONNECTORS WITH COMPLETE GROUNDING PROVISIONS!

Switchcraft "Quick-Ground" connectors feature a separate "Ground-Terminal" electrically integral with connector shell. Ground continuity between mating plugs automatically accomplished through exclusive "Ground Contactors". Possible loss of insert screw is eliminated by new "Captive-Design" insert screw. Socket and pin assemblies utilize "wedge-action" to insure firm, reliable positioning in connector shell. Inserts are easily removable for wiring & soldering. High impact thermosetting plastic material insures long reliable insert assembly life. Female connectors have latch lock feature to hold connectors firmly together. Plugs and receptacle mechanically keyed for proper mating. "Q-G" (*) Series 3-, 4-, 5-, 6-, and 7-pin/contact connectors offer 4-, 5-, 6-, 7-, & 8-pin contact versatility when "Ground-Terminal" is used. Used interchangeably with Switchcraft QGP connectors (page 41): 3- and 4-contact (Amphenol 91-850 and Excellite 91-450 Series, and Cannon XLR-3, XLR-4); 5-contact (Cannon XLR-5 and Amphenol Excellite 91-450 Series).

Cord plug part no. suffix "L" indicates strain relief accepts cables from .25 in. (6.35 mm) to .328 in. (8.33 mm) dia.; other plugs accept cables up to .25 in. (6.35 mm) dia. (*) Number of insert contacts or pins must be specified to complete part number.

Part number with suffix "B" indicates cord plug with "Black-Velvet" black finish (minimizes glare and permits stable "through-connector" shielding). Suffix "D" indicates type with "FAS-DISCONNECT" detent feature. U.S. Patent 3,219,961; Canadian Patent No. 761,114 (June 13, 1967)

Specifications:**ELECTRICAL**

Contact Resistance: 50 milliohm max., per pole

Current Rating: 3 pole-15A; 4 pole-10 A, 5 & 6 pole-7.5 A; 7 pole-5 A.

Insulation Resistance: 1,000 megohms, min.

Specifications (cont'd.):

Dielectric Withstanding Voltage: 1,000 V (rms)

Capacitance: 2 Pf between pins and 4 Pf between pins and shell, max. (A3M & A3F).

MECHANICAL

Insertion/Withdrawal Forces: 7 lb. max., 5 lb. nominal, insertion; 7 lb. max., 5 lb. nominal, withdrawal.

MATERIAL

Shell: Die-cast zinc. Satin nickel finish on all shells, except a black, electrically conductive, chrome plate finish on "Black-Velvet" shells.

Insert Insulation: High-impact, molded thermo-setting plastic.

Socket Contacts: Phosphor bronze, silver plated, chromate dipped; bifurcated on 3-contact type.

Pin Contacts: Brass, silver plated, chromate dipped, Resists tarnishing, and provides excellent electrical conductivity.

Latchlock: High-strength die-cast zinc.

Latch Release: Steel, nickel plated.

Latch Detent: Formed stainless steel.

Insert Screw: Stainless steel.

Cable Relief Bushing: Neoprene.

Mounting Nut and Washer: Brass, nickel plated. (Black, electrically conductive chrome plate finish for "Black Velvet" receptacles).

Mounting Wall Plates: Cold-rolled steel, with stainless steel finish.

A(*)F AND A(*)M CORD PLUGS

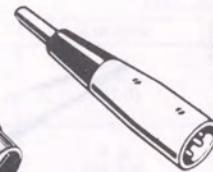
Streamlined design metal body, satin-nickel finish, dual pressure plates and keyed black neoprene relief bushing. Brass, silver-plated chromate dipped pins.



A(*)F



A(*)FB



A(*)M



A(*)MB

Part No. ¹	Part No. ²	Features	Insert Contacts	Dimensions, in. (mm)		Mating ³
				Length	Dia.	
A3F	A3FL	Female cord plug.	3	3.219 (81.76)	.75 (19.05)	A(*)M
A4F	A4FL	Female cord plug.	4			
A5F	A5FL	Female cord plug.	5			
A6F	---	Female cord plug.	6			
A7F	---	Female cord plug.	7	3.22 (81.79)	.75 (19.05)	A(*)M
A3FB	---	Female cord plug; black velvet finish.	3			
A3FD	---	Female cord plug; FAS-DISCONNECT detent.	3			
A4FD	---	Female cord plug; FAS-DISCONNECT detent.	4			
A5FD	---	Female cord plug; FAS-DISCONNECT detent.	5			
A3M	A3ML	Male cord plug.	3	2.781 (70.64)	.75 (19.05)	A(*)F
A4M	A4ML	Male cord plug.	4			
A5M	A5ML	Male cord plug.	5			
A6M	---	Male cord plug.	6			
A7M	---	Male cord plug.	7	2.781 (70.64)	.75 (19.05)	A(*)F
A3MB	---	Male cord plug; black velvet finish.	3			

NOTES: ¹ Accepts cables up to .25 in. (6.35 mm) dia.

² Accepts cables up to .25 in. (6.35 mm) dia. to .328 in. (8.33 mm) dia.

³ Also mates with Series QGP connectors; 3- and 4-contact (Amphenol 91-850 and Excellite 91-450 Series, and Cannon XLR-3, XLR-4); 5-contact (Cannon XLR-5 and Amphenol Excellite 91-450 Series), and other connectors with similar contact arrangements.

For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

R(*)F AND R(*)M RIGHT ANGLE CORD PLUGS

Right angle cord plugs for limited space connections have metal housing with satin nickel finish. Suffix "F" indicates female plug and "M" indicates male plug.



R(*)F

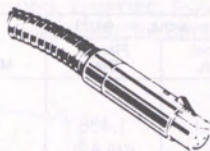


R(*)M

Part No.	Part No.	Insert Contacts	Dimensions, in (mm)		Mating ¹
			Length	Width	
R3F	R3M	3	1.8 (45.7) lg. 2.0 (54.8) h.	.938 (23.83)	A(*)M R(*)M S(*)M
R4F	R4M	4			
R5F	R5M	5			
R6F	R6M	6			
R7F	R7M	7	1.5 (38.1) lg. 2.0 (54.8) h. dims. approx.	.938 (23.83)	A(*)M R(*)M S(*)M
—	R3ML	3			
—	R4ML	4			
R3FL	—	3			
R4FL	—	4	1.5 (38.1) lg. 2.0 (54.8) h. dims. approx.	.938 (23.83)	A(*)M R(*)M S(*)M
R5FL	R5ML	5			

NOTE: ¹ Also mates with other connectors with similar pin/contact arrangements.

P(*)F MICROPHONE PLUGS AND P(*)M GOOSENECK PLUGS



P(*)F



P(*)M

P(*)F female microphone plug fits standard gooseneck with external 5/8-27 thread. Mic plugs directly into connector.
P(*)M male microphone plug fits standard gooseneck with internal 5/8-27 thread. Use on gooseneck with mic plug on opposite end. Plugs directly into female receptacle. (Gooseneck not supplied.)

Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Length	Dia.	
P3F	3	2.25 (57.15)	.75 (19.05)	Mates with male receptacle
P3M	3	1.938 (49.23)	.75 (19.05)	Mates with female receptacle
P4M	4			
P5M	5			

NOTE: ¹ Also mates with connector inserts with similar pin or contact arrangements.

T(*)F AND T(*)FM PLUGS WITH ON-OFF SWITCH



Cord Plugs connect directly to microphone. Ideal for entertainers and broadcasters—easy thumb operation. Built-in, submin. slide switch. T(*)F: DPDT (2-C) locking on-off switch; T(*)FM: SPDT (1-C) momentary on-off switch. Switch rating: 1A, 125 V AC; 0.5 A, 125 V DC.

Part No.	Insert Contacts	Dimensions, in (mm)	
		Length	Dia.
T3F	3	3.953 (100.41)	.75 (19.05)
T3FM			

N3MS SHORTING PLUG



Male shorting plug connects to female receptacle, shorts-out unused hi-Z mic. inputs or other sensitive circuits. Shorting jumper between pins 2 & 3. Brass housing, satin-nickel finish with nickel-plated steel chain 6 in. (152.4 mm) lg. prevents plug loss.

Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Length	Dia.	
N3MS	3	1.39 (35.3)	.77 (19.4)	B3F

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

B(*)M RECEPTACLES



Series B(*)M



Series B(*)MB

For panel/chassis mounting; locknut accommodates panels up to .25 in. (6.35 mm) thick. Requires .812 in. (20.64 mm) dia. mounting hole. Single hole mounting can be keyed by using "D" shape panel hole or Switchcraft No. S-3519 Mounting Adapter. Metal shell, satin nickel finish—pin extensions .281 in. (7.14 mm).

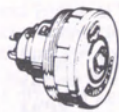
Part No.	Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
			Barrel Lgth.	Flange Dia.	
B3M	B3MB	3	.813 (20.64)	1.109 (28.18)	A(*)F
B4M	—	4			
B5M	—	5			
B6M	—	6			
B7M	—	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

B(*)F AUDIO RECEPTACLES



Series B(*)F



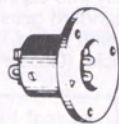
Series B(*)FB

Panel mount female receptacle. Supplied with 1-1/4-18 UNEF spanner nut; mounts in 1.25 in. (37.75 mm) dia. hole in panels up to .438 in. (11.13 mm) thick. Terminal extension .25 in. (6.35 mm) max.

Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Barrel Lgth.	Flange Dia.	
B3F	3	1.109 (28.17)	1.438 (36.51)	A(*)M, R(*)M, S(*)M
B3FB	3			
B4F	4			
B5F	5			
B6F	6			
B7F	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

C(*)M RECEPTACLES

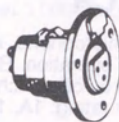


Mounts on wall, panel or chassis with 3, .140 in. (3.57 mm) dia. holes for #4 mounting screws (not supplied). Pin extensions .281 in. (7.14 mm) max. Mounts in panel or chassis hole .766 in. (19.45 mm) dia.

Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Barrel Lgth.	Flange Dia.	
C3M	3	.813 (20.65)	1.438 (36.53)	A(*)F
C4M	4			
C5M	5			
C6M	6			
C7M	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

C(*)F RECEPTACLES

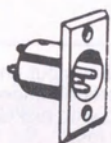


Female receptacle for panel/chassis mtg. Socket insert push-type latch locking device. Flange has 3, .140 in. (3.57 mm) holes for mounting by #5-40 screws (not supplied). Mounts from front in .953 in. (24.21 mm) dia. hole. Pin extension .25 in. (6.35 mm) max.

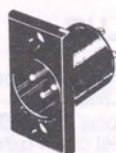
Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Barrel Lgth.	Flange Dia.	
C3F	3	1.109 (28.17)	1.438 (36.53)	A(*)M
C4F	4			
C5F	5			
C6F	6			
C7F	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

D(*)M RECEPTACLES



Series D(*)M



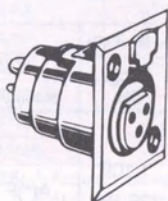
Series D(*)MB

Narrow rectangular flange for mounting on compact panel/chassis. Mounts from front in .766 in. (19.45 mm) dia. hole. Has 2, .136 in. (3.45 mm) dia. countersunk holes for #5-40 flat head mounting screws (not supplied). Pin extension .281 in. (7.14 mm) max.

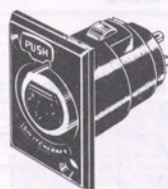
Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
		Barrel Lgth.	Flange Dia.	
D3M	3	.813 (20.64)	.875 (22.23)	A(*)F
D3MB	3			
D4M	4		x	
D5M	5		1.438	
D6M	6		(36.51)	
D7M	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

D(*)F, D(*)FB AND D(*)FD RECEPTACLES



Series D(*)F, D(*)FD



Series D(*)FB

Female receptacle mounts from front of panel or chassis in .953 in. (24.21 mm) dia. hole. Series D(*)F has standard latchlock, Series D(*)FB is same as D(*)F except non-reflective black finish, Series D(*)FD has FAS-CONNECT detent. Pin extension .25 in. (6.35 mm). Mount with 2, #5-40 flat head screws (not supplied).

Part No.	Part No.	Insert Contacts	Dimensions, in. (mm)		Mating ¹
			Barrel Lgth.	Flange	
D3F	D3FD	3	1.109 (28.17)	1.063 (27)	A(*)M
D3FB	—	3		x	
D4F	D4FD	4		1.438	
D5F	D5FD	5		(36.53)	
D6F	D6FD	6			
D7F	D7FD	7			

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

W(*)M RECEPTACLES



Right angle male chassis/panel mount receptacle for minimum space connecting applications. Mounts with 2, #5-40 screws (not supplied).

Part No.	Insert Contacts	Dimensions, In. (mm)	Mating ¹
W3M	3	.813 (20.65) H. x 1.25 (31.75) W. x 1.438 (36.53) L.	A(*)F, A(*)FB, A(*)FD
W4M	4		

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

Y(*)F, Y(*)FPC, Y(*)FD AND Y(*)FDPC RECEPTACLES

Series Y(*)F, Y(*)FPC. Female receptacles with latchlock, for panel or chassis mounting. Y(*)F—solder terminals Y(*)FPC—PC terminals and standoffs. Rear of panel mount in .875 in. (22.22 mm) dia. hole. Max. panel thickness—.25 in. (6.35 mm); .156 in. (3.96 mm) if YEF Escutcheon is used. Mounted with 2, #4-40 screws (not supplied).

Series Y(*)FD, Y(*)FDPC. Female receptacles. Same as Y(*)F and Y(*)FPC, respectively, except with FAS-DISCONNECT detent. All

Install latch release lever (Series Y(*)F and Y(*)FPC) after receptacle is fastened to chassis/panel insert lever in slot from front and press inward until it locks ("snaps") into place. To remove lever, depress rear of lever (with screwdriver) through opening at top rear of housing and pull lever straight out.

Series Y(*)MPC. Male receptacle for panel or chassis mount. PC terminals and standoffs. Rear of panel mount in .875 in. (22.2 mm) dia. hole. Max. panel thickness—.25 in. (6.4 mm); .156 in. (4 mm) if YEM escutcheon is used.



Y3FD



Y3FPC



Series YEF

receptacles are rear-of-panel mount (units with PC terminals also mount to PC board). Fastens to chassis/panel with two #4-40 machines screws (not supplied). Use of escutcheons is optional.

Part No.	Insert Contacts	Dimensions, In. (mm)		Mating ¹
		Barrel Lgth.	Flange	
Y3F Y3FD YDFDPC Y3FPC	3	.944 (23.98)	1.055 (26.80) x 1.43 (36.32)	A(*)M, A(*)MD
Y3MPC		.259 (6.6)	.868 (22.0) x 1.43 (36.3)	

NOTE: Also mates with other connectors with similar pin arrangements.

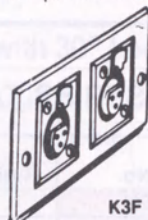
Series YEF Escutcheons. Provides distinctive panel appearance.
Switchcraft No. YEF-O2 Black

WALL PLATE RECEPTACLES

Mount in standard electrical boxes. Wall plates: stainless steel. Cover mounting screws included.



G3M



K3F

Part No.	Insert Contacts	Receptacles	Plate Dim. In. (mm)
G3MS	3	1, No. B3M	4.5 (114.3) H. x 2.75 (69.85) W.
G4MS	4	1, No. B4M	
H3MS	3	2, No. B3M	
H4MS	4	2, No. B4M	
J3FS	3	1, No. D3F	
J4FS	4	1, No. D4F	
K3FS	3	2, No. D3F	
K4FS	4	2, No. D4F	

S(*)F AUDIO CONNECTOR ADAPTERS



Male insert at one end, female insert at other end. For use as a transformer, attenuator circuit or other circuitry in-line with microphone input. Internal wiring required.

Part No.	Insert Contacts	Dimensions In. (mm)	Mating ¹
S3FM	3	4.016 (102.01) lg. x .75 (19.05) dia.	A(*)F, A(*)M
S4FM	4		

NOTE: ¹ Also mates with other male or female receptacles with similar pin arrangements

MALE ADAPTER RECEPTACLES



L3M



M3M

Adapters mount directly to microphones or other equipment. Series L(*)MN: plain cylindrical shell with knurled coupling nut. Series M(*)M: short cylindrical shell with 13/16-27 thread.

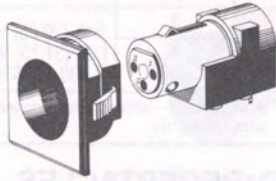
Part No.	Insert Contacts	Dimensions, In. (mm)		Mating ¹
		Length	Dia.	
L3MN	3	1.125 (28.58)	.906 (23.01)	A(*)F
M3M M4M	3 4	.813 (20.65)	.766 (19.46)	

NOTE: ¹ Also mates with other connectors with similar pin arrangements.

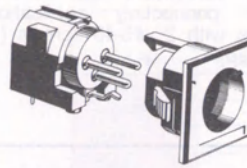
For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

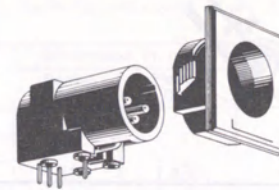
RIGHT ANGLE "Q-G" PC RECEPTACLES



Nos. RAPC3FG & RAFH



Nos. RAPC3MG & RAMH



Nos. RAPC3MHG & RAMHH

Right angle, 3-pin/contact male and female "Q-G" receptacles mount directly to PC boards and fit through adjacent panel for access from outside the equipment. Escutcheons are available to trim panel hole and permit PC board and connector to be removed

without unfastening connector from panel. Grounded and ungrounded styles fasten to PC boards with four, #4-40 pan head thread forming screws (not supplied). Optional support bracket also available.

Part No.	Description	Dimensions, in. (mm)		
		Barrel Lgth.	Escutcheon	Mating ¹
RAPC3F	Female w/detent latching.	.55 (14.0)	---	A3M
RAPC3FG	Female, grounded w/detent latching.		---	---
RAFH	Escutcheon (use w/RAPC3F & RAPC3FG).		1.25 (30.9) sq.	---
RAPC3M	Male.	---	---	A3F
RAPC3MG	Male, grounded.		---	---
RAMH	Escutcheon (use w/RAPC3M & RAPC3MG).		1.027 (26.08) sq.	---
RAPC3MH	Male, hooded.	---	---	A3F
RAPC3MHG	Male, grounded, hooded.		---	---
RAMHH	Escutcheon (use w/RAPC3MH & RAPC3MHG).		1.219 (31.00) sq.	---
RAPCBRK	Mtg. bracket.	---	---	---
P-3028	Mtg. screws (four needed when mtg. bracket is used).	---	---	---
P-3030	Mtg. screws (four needed when mtg. bracket not used).	---	---	---

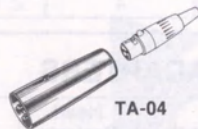
NOTE: ¹ Also mates with other compatible "Q-C" and QGP connectors; see pp. 41-43.

Tini "Q-G" AUDIO ADAPTERS, SERIES TA

Adapts Tini "Q-C" audio connectors to standard size Switchcraft "Q-G" and QGP, and other compatible connectors.



TA-01



TA-04

Part No.	Mates with	
	Tini "Q-G" End	"Q-G" End
TA-01	TA3F	A3M
TA-02	TA4F	A4M
TA-03	TA5F	A5M
TA-04	TA3M	A3F
TA-05	TA4M	A4F
TA-06	TA5M	A5F

CUSTOM MOLDED CABLES

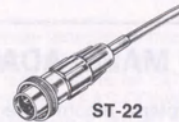
Switchcraft offers custom molded cable assemblies with many special features, including:

- Improved strain relief • Choice of cable dia. and length
- Choice of colors (for color-coding) • Identification molded onto handle/body for increased product recognition • Standard and special terminations • Wide selection of molded terminations (connectors, switches, special terminations, stripped and tinned leads, spade lugs, alligator clips . . . and many more)

There is virtually no limit to the type and characteristics of special molded cables that Switchcraft can build to special order. Switchcraft can provide cables to meet your technical requirements, or we can mold to your cable.

NOTE: FOR PRICE AND DELIVERY FOR ALL CUSTOM MOLDED CABLE ASSEMBLIES, CONSULT SWITCHCRAFT.

ST-22—Female microphone, 2 silver plated contacts (3-circuit) connector with threaded locking and integrally molded handle. Standard colors: gray, white, brown; others possible. Completely shielded, accepts cables up to .25 in. (6.35 mm). Cable jacket must have temperature rating of 60° C min. Interchangeable with Amphenol 80MC-2F, mates with Amphenol 80-PC2M.



ST-22



ST-24



ST-34

ST-24—Male microphone, 2 silver plated pins (3-circuit) connector with threaded lock collar and integrally molded handle. Standard colors: gray, white, brown, black; others possible. Completely shielded, accepts cables up to .25 in. (6.35 mm). Cable jacket must have a temperature rating of 60° C min. Interchangeable with Amphenol 80-MC2M, mates with Amphenol 80-MC2F.

ST-34—Male microphone, 4 silver plated pins, connector minimizes noise, eliminates shorts and assures positive connection. Standard colors: gray, white, brown, black; others possible. Cable jacket must have temperature rating of 60° C min. Mates with Switchcraft 2504 FP, 4-contact female connector.

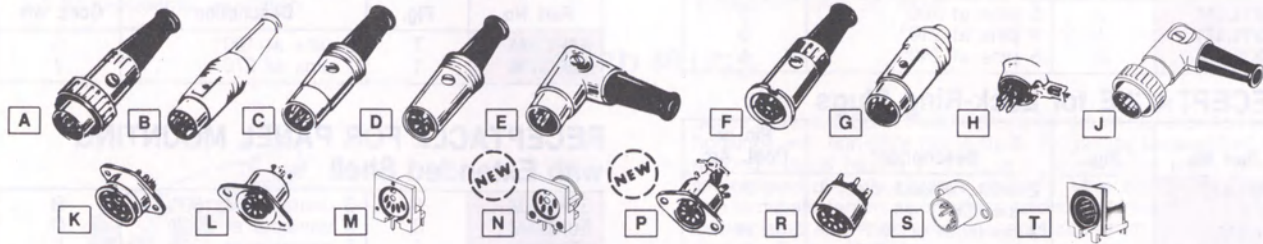
For detailed data on above products, ask for Switchcraft Catalogs 377, C-502 and M-701.

NOTE: Contact your Switchcraft Representative for price & delivery.

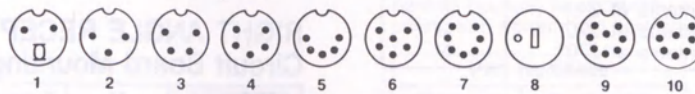
CIRCULAR DIN CONNECTORS

Designed for low level circuitry, for unlimited use in computer, commercial, industrial, consumer and military applications. Exact replacements for plugs and receptacles, used on most foreign built recorders, radios and dictation equipment. Also used extensively for computer keyboard, I/O and peripheral applications. "Switchcraft/DIN" 2 to 8 contact connectors include male and female plugs and receptacles with bright nickel-plated barrels & plastic snap-on shells. Lock-ring coupling, silver plated contact pins for low contact resistance, contact friction coupling for low

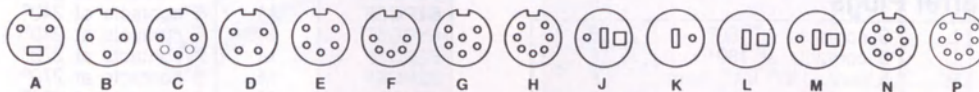
mechanical interference noise, exclusive "automatic" grounding and polarization provisions. Full line of receptacles offer thru panel, PC board and surface mounting. Positioning "Ground Key-Rib" or "Ground Contact" — electrically integral with the connector shell — is provided in each plug and receptacle (except those with plastic housing or shells) to ground or shield the connector shell. Right angle PC board mount for common ground use also available. See page 48 for RF shielded receptacles.



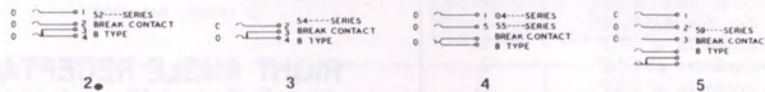
PIN ARRANGEMENTS



CONTACT ARRANGEMENTS



SCHEMATIC CIRCUITS



STRAIGHT CORD PLUGS with 30° Lock Ring

Part No.	Fig.	Description	Pin or Cont. Arr.
03CL2M	A	2 pins, ins. sw. actuator	1
05CL3M	A	3 pins at 180°	2
05CL5M	A	5 pins at 180°	5
09CL4M	A	4 pins at 210°	3
12CL5M	A	5 pins at 240°	4

STRAIGHT CORD PLUG with Shielded Barrel

05GM3M	B	3 pins at 180° Gray	2
05GM5M	B	5 pins at 180° Gray	5
09GM4M	B	4 pins at 210° Gray	3
12GM5M	B	5 pins at 240° Gray	4
12GM6M	B	6 pins at 240° Gray	6
15GM7M	B	7 pins at 270° Gray	7
15GM8M	B	6 pins at 270° Gray	9

STRAIGHT CORD PLUG with Extended Barrel

05BL3M	C	3 pins at 180°	2
05BL5M	C	5 pins at 180°	5
09BL4M	C	4 pins at 210°	3
12BL5M	C	5 pins at 240°	4
12BL6M	C	6 pins at 240°	6
15BL7M	C	7 pins at 270°	7
15BL8M	C	8 pins at 270°	9
20BL8M	C	8 pins at 262°	10

STRAIGHT CORD PLUG with Flush Socket Insert

06AL5F	D	5 contacts at 180°	•F
10AL4F	D	4 contacts at 210°	D
13AL5F	D	5 contacts at 240°	E
13AL6F	D	6 contacts at 240°	G
15AL7F	D	7 contacts at 270°	H

RIGHT ANGLE CORD PLUG with 8 Position Barrel

Part No.	Fig.	Description	Pin or Cont. Arr.
05DL3M	E	3 pins at 180°	2
05DL5M	E	5 pins at 180°	5
09DL4M	E	4 pins at 210°	3
12DL5M	E	5 pins at 240°	4
15DL8M	E	8 pins at 270°	9

STRAIGHT CORD PLUG with Lock Flange

06EL5F	F	5 pins at 180°	F
10EL4F	F	4 contacts at 210°	D
13EL5F	F	5 contacts at 240°	E

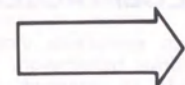
STRAIGHT CORD PLUG with Snap-Lock Plastic Shell

05LK3M	G	3 pins at 180°	2
05LK5M	G	5 pins at 180°	5
09LK4M	G	4 pins at 210°	3
12LK5M	G	5 pins at 240°	4

RIGHT ANGLE CORD PLUG with Ins. Plastic Shell

05UK3M	H	3 pins at 180°	2
05UK5M	H	5 pins at 180°	5

SEE NEXT PAGE FOR
ADDITIONAL PART NUMBERS



For detailed data on above products, ask for Switchcraft Catalog C-503.

NOTE: Contact your Switchcraft Representative for price & delivery.

CIRCULAR DIN CONNECTORS (cont'd.)

SEE PAGE 47 FOR ILLUSTRATIONS, PIN/CONTACT ARRANGEMENTS & SCHEMATIC CIRCUITS

RIGHT ANGLE CORD PLUG with 8 position barrel and 30° Lock Ring

Part No.	Fig.	Description	Pin or Cont. Arr.
05YL5M	J	5 pins at 180°	5
09YL4M	J	4 pins at 210°	3
12YL5M	J	5 pins at 240°	4

RECEPTACLE for Lock-Ring Plugs

Part No.	Fig.	Description	Pin or Cont. Arr.
55HA2F	K	2 cont., closed. ckt., sw. CKT. #4	A
57HA3F	K	3 contacts at 180°	B
57HA5F	K	5 contacts at 180°	F
57HB5F ¹	K	5 contacts at 180°	F
60HA4F	K	4 contacts at 210°	D
61HA5F	K	5 contacts at 240°	E
62HB7F	K	7 contacts at 270°	H
62HB8F	K	8 contacts at 270°	N

¹ Flared solder terminal.

RECEPTACLE for Shielded and Extended Barrel Plugs

57GB3F ¹	L	3 contacts at 180°	B
57GB5F	L	5 contacts at 180°	F
57NC5F	R	5 cont.—180° P.C. term.	F
58NC3F ¹	R	3 contacts at 180°	B
59GB3F	P	3 contacts at 180°	B
59GB5F	P	5 cont.—180° closed ckt. sw. CKT. #5	F
60GB4F	P	4 contacts at 210°	D
61GA5F	L	5 contacts at 240°	E
61GB6F	L	6 contacts at 240°	G
61NC5F	R	5 contacts at 240°	E
61NC6F	R	6 contacts at 240°	G
62GB7F	L	7 contacts at 270°	H
62GB8F	L	8 contacts at 270°	N
61GB5F	L	5 contacts at 240°	E
62NC7F	R	7 contacts at 270°	H
62NC8F	R	8 contacts at 270°	N

NOTE: ¹ Insert has 2 blank holes—also mates with pin arrangement F (2 circuits not used).

RIGHT ANGLE RECEPTACLE for Printed Circuit Board Mounting (interlocking flanges for side-by-side mounting)

Part No.	Fig.	Description	Pin or Cont. Arr.
57PC5M	T	5 pins at 180°	5
62PC7M	T	7 pins at 270°	7

RECEPTACLE FOR PANEL MOUNTING with Extended Shell

57KD3M	S	3 contacts at 180°	B
60KD4M	S	4 contacts at 210°	D
57KD5M	S	5 contacts at 180°	F
61KD5M	S	5 contacts at 240°	E

RIGHT ANGLE RECEPTACLE for Printed Circuit Board Mounting

57PC3F ¹	M	3 contacts at 180°	B
57PC5F	M	5 contacts at 180°	F
60PC4F	M	4 contacts at 210°	D
61PC5F	M	5 contacts at 240°	E
61PC6F	M	6 contacts at 240°	G
62PC7F	M	7 contacts at 270°	H
62PC8F	M	8 contacts at 270°	N
70PC8F	M	8 contacts at 262°	P

NOTE: ¹ Insert has 2 blank holes. Also mates with pin arrangement F (2 circuits not used).

RIGHT ANGLE RECEPTACLE for printed Circuit Board Mounting (metal flange for RF shielding)

57PC3FS	N	3 contacts at 180°	B
57PC5FS	N	5 contacts at 180°	F
60PC4FS	N	4 contacts at 210°	D
61PC5FS	N	5 contacts at 240°	E
61PC6FS	N	6 contacts at 240°	G
62PC7FS	N	7 contacts at 270°	H
62PC8FS	N	8 contacts at 270°	N

CONTROL AND SWITCHING PLUGS

T



U



V



PLUGS with Snap-On Plastic Shells

Part No.	Fig.	Description	Pin or Cont. Arr.
01QK2M	U	Male plug. 2 cont.	8
02QK2F	V	Female plug. 2 cont.	K

CONTROL AND SWITCHING RECEPTACLES For 01QK2M Plug

Each receptacle includes an elongated center contact for positive polarization. When inserting mating plug, contact is made to terminals 1 and 2. Receptacle's built-in closed-circuit switch is not actuated. Plug may then be turned 180°.

CONTROL AND SWITCHING RECEPTACLES (cont'd.)

without a polarity change, and re-inserted to open switch and make contact to terminal 2. Convertible feature available in Nos. 51DA2F, 52BA2F, 52CA2F and 52DA2F.

RECEPTACLE with Insulated Plastic Body

Part No.	Fig.	Description	Pin or Cont. Arr.
52CA2F	T	2 contacts, closed ckt. switch convertible CKT. #2.	J
53CA2F	T	2 contacts	K
54CA2F	T	2 contacts	L

For detailed data on above products, ask for Switchcraft Catalog C-503.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Slim-Line" AUDIO CONNECTORS

Audio connectors are miniaturized, low cost, premium quality connectors — specifically designed for microphone; PA; 2-way radio, CB, ham, marine radio; audio-visual; industrial control and instrumentation, broadcast, security and medical electronics.

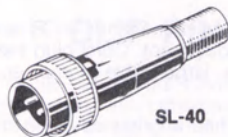
FEATURES:

- Interchangeable inserts (male & female) which fit both plug and receptacle.
- Non-reflective matte finish on all exterior parts.
- Coupler ring threads onto receptacle housing or plug, preventing accidental separation.

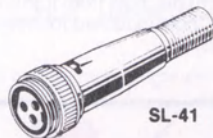
- Ground/shielding feature permits housings to shield internal connections and provide common (ground) connections without using a pin/contact.

On cord plugs, shield is connected to cable clamp No. SL-04 Cable Clamp — must be ordered separately for receptacles when through-ground/shield connections are desired. Flatted barrel inserts keyed to housings and mating male or female insert. Latch spring on insert seats securely in latch detent. U.S. Pats. Nos. 3,885,849 and 3,926,499. Canadian Patent Nos. 1,013,447 (July 5, 1977) and 1,016,614 (March 30, 1977).

CORD PLUGS



SL-40



SL-41

Series SL-40 and SL-41 feature precision-drawn nickel plated brass housings with non-glare matte finish. Plugs may be specified with molded inserts having 2, 3, 4, or 5 silver-plated brass pins or silver-plated phosphor bronze contacts. Male inserts have solder cup terminals; female inserts have solder lug terminals. Extra large cable clamp and strain relief. Accepts cables up to .281 in. (7.14 mm) dia. Series SL-40 features captive coupler ring with threaded bushing. Series SL-41 has no coupler ring. Plug is threaded to accept coupler ring on mating plug. Grounding/shielding feature permits housing to electrically shield through connections. Latch spring and detent hold barrel inserts firmly in housings.

Part Numbers		Pins/ Contacts	Arrangement (see Chart)
Coupler Ring	No Coupler Ring		
SL-40-2M	—	2	1
SL-40-3M	—	3	2
SL-40-4M	—	4	3
SL-40-5M	—	5	4
SL-40-2F	SL-41-2F	2	A
SL-40-3F	SL-41-3F	3	B
SL-40-4F	SL-41-4F	4	C
SL-40-5F	SL-41-5F	5	D

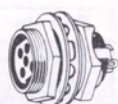
RECEPTACLES

Series SL-10, SL-17 and SL-18 have nickel-plated die cast housings with non-glare matte finish. Series SL-10: .125 in. (3.18 mm) mounting holes on flanges accept #4 machine screws or same size rivets (not supplied). Series SL-17 receptacles have no flanges and are

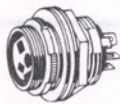
mounted from rear of panel (mounting hardware supplied). Series SL-18 receptacles have no flanges and mount from front of panel (mounting hardware supplied).



SL-10



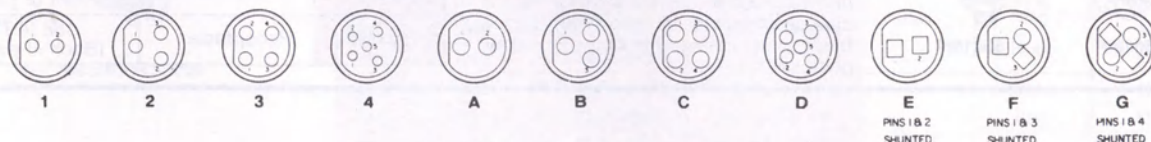
SL-17



SL-18

Part Numbers			Pins/ Contacts	Mounting, in. (mm)		Arrangement
Flange Mount	Rear-of- Panel Mount	Front-of- Panel Mount		Hole	Panel Thickness	
SL-10-2M	—	—	2	.688 (17.48)	SL-10: .188 (4.78)	1
SL-10-3M	SL-17-3M	SL-18-3M	3			2
SL-10-4M	SL-17-4M	SL-18-4M	4			3
SL-10-5M	SL-17-5M	SL-18-5M	5			4
SL-10-2F	SL-17-2F	SL-18-2F	2		SL-17 and SL-18: .219 (5.56)	A
SL-10-3F	SL-17-3F	SL-18-3F	3			B
SL-10-4F	SL-17-4F	SL-18-4F	4			C
SL-10-5F	SL-17-5F	SL-18-5F	5			D

CONTACT ARRANGEMENTS

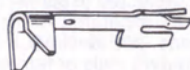


For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Slim-Line" AUDIO CONNECTORS (cont'd.)

"Slim-Line" CONNECTOR GROUNDING SHIELDING



SL-04

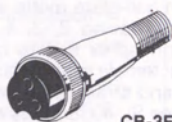
For the plug-to-receptacle grounding/shielding, order Cable Clamp No. SL-04 and install it on the receptacle insert (see illustration). then connect respective ground/common leads to cable clamps on plug and receptacle to accomplish grounding/shielding.

Switchcraft Cable Clamp No. SL-04

"CB" CONNECTORS



CB-3M



CB-3F

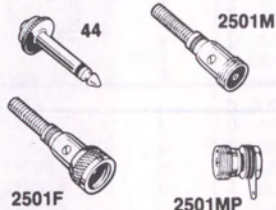
Miniature connectors for microphone connections in CB radios and similar mobile/communications equipment. Cord plug has silver-plated phosphor-bronze contacts, large cable clamp, and strain relief spring.

Part No. CB-3F — Cord plug has knurled coupling ring with internal metric M16X1 thread (fits most CB microphone receptacles). Solder lug terminals accept wires up to 18 AWG. Accommodates cables up to .281 in. (7.14 mm) dia.

Part No. CB-3M — Receptacle has die-cast housing that keys mating plug and cup-type terminals for 16 AWG wire. Mounts in .64 in. (16.26 mm) dia. hole from front of panels up to .125 in. (3.18 mm) thick, or "D" hole mounted for non-turn mounting (washer and lock nut supplied).

Part No.	Insert Contacts	Dimensions, In. (mm)	
		Lgth.	Dia.
CB-3F	3	1.594 (40.49)	.703 (17.86)
CB-3M	3	.781 (19.84)	.705 (19.05)

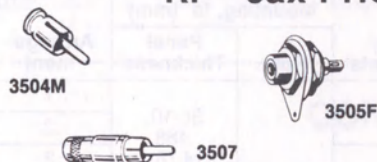
MICROPHONE CONNECTORS



Connectors with 5/8-27 threads are designed for use with single cond. microphone cable with .281 in. (7.14 mm) max. O.D. Part No. 44 adapts 2501F to fit standard 2-cond. phone jack. Coupling ring on Part No. 2501F removable for fast change from female to male type. Spring assembled into body, cable braid and spring clamped by hollow set screws .281 in. (7.14 mm) max. cable dia. Part No. 2501MP mounts in .390 in. (9.92 mm) dia. hole.

Part No.	Description
44	Phone Plug Adapter
2501F	Female Connector
2501M	Male Connector
2501MP	Panel Receptacle

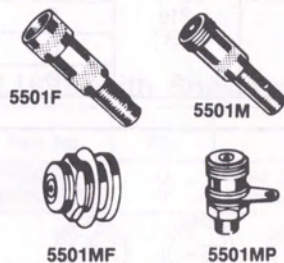
"RF"-Jax PHONE JACKS AND "RF-Plug" PHONE PLUGS



Standard phono Jacks and plugs with nylon insulation for radio frequency applications—low cost, max. insulation resistance. Part No. 3504M .375 in. (9.52 mm) O.D. .125 in. (3.18 mm) max. cable dia. Part No. 3505F mounts front of panel in .375 in. (9.52 mm) hole—fits panels up to .172 in. (4.37 mm) thick. Part No. 3507 has .406 in. (10.31 mm) O.D. shielded screw-on handle with cable clamp: .203 in. (5.16 mm) max. cable dia.

Part No.	Description
3504M	Plug
3505F	Chassis Jack
3507	Plug

"Mini-Con" MINIATURE CONNECTORS



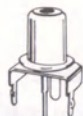
Approx. 1/2 the size of standard microphone connectors. Ideal for miniature lapel microphones, musical instruments etc.—wherever small cable is used. Accepts single-conductor shielded cable up to .187 in. (4.76 mm) dia. Coupling ring on 5501F removable for quick change of female to male type. Cable-braid spring clamped to body by hollow point set screw.

Part No.	Description	Mounting Hole, In. (mm)
5501F	Female Plug	—
5501M	Male Plug	—
5501MF	Receptacle	.375 (9.52) (Front of panel)
5501MP	Receptacle	.188 (4.78) (Back of panel)

For detailed data on above products, ask for Switchcraft Catalogs C-502 and J-104.

NOTE: Contact your Switchcraft Representative for price & delivery.

PC MOUNT PHONO JACKS



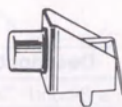
No. 3514PC



No. 3515PC



No. 3516PC



No. 3517PC

No. 3514PC — 2-cond. PC mount phono jack accepts plugs with pins up to .563 in. (14.3 mm) long. Typical Switchcraft mating plug: 3502. Frame & Shell: Steel, cadmium plated. Center Terminal: Brass, cadmium plated. Insulator: Thermoplastic polyester.

No. 3515PC — Low profile 2-cond. phono jack accepts plugs with pins up to .375 in. (9.5 mm) long. Typical Switchcraft mating plug: A-1063. Contact & Saddle: Spring type brass, brass pre-tinned. Shell: Steel or brass, cadmium plated. Insulator Bushing: Ceramic. Insulator Spacer: Glass polyester.

No. 3516PC — 2-cond. PC mount phono jack accepts plugs with pins up to .563 in. (14.3 mm) long. Typical Switchcraft mating plug: 3502. Shell: steel, cadmium plated. Center Terminal: Brass, cadmium plate over copper. Insulator: Thermoplastic polyester.

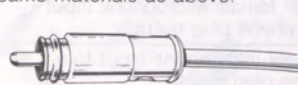
No. 3517PC — 2-cond. right angle PC mount phono jack accepts plugs with pins up to .563 in. (14.3 mm) long. Typical Switchcraft mating plug: 3502. Frame & Shell: Steel, cadmium plated. Center Terminal: Brass, cadmium plate over copper. Insulator: Ceramic & glass polyester.

CLIP RING PHONO PLUGS/MOLDED CABLE ASSEMBLIES

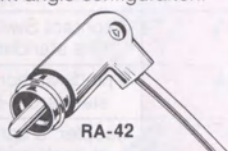
Molded cable assemblies have exclusive captivated clip ring grounding design which eliminates permanent "set" tulip petals and subsequent erratic ground connections found on many conventional phono plugs. 360° crimp strain relief at rear of shell completely surrounds cable jacket.

Style ST-42 — Straight phono plug with clip ring grounding. Uses cables up to .2 in. (5.1 mm) O.D. Completely shielded. Tip (prong): Brass, nickel plated. Sleeve: Steel, copper flashed & cadmium plated. Insulation: Paper base phenolic. Handle: Black molded thermoplastic.

Style RA-42 — Similar to ST-42 except right angle configuration. Same materials as above.



ST-42



RA-42

Part No.	Termination ¹		Cable No.	Cable Specifications		Lgth. (ft.)
	A	B		Impedance Ω	Capacitance pF/ft.	
27AF84	ST-42	S & T	W-1000-2	50	31	3
27AK28	ST-42	RA-42	W-1000-2	50	31	6
27AK82	ST-42	ST-60	W-1000-2	50	31	6
27AK84	ST-42	S & T	W-1000-2	50	31	6
27XM82	ST-42	ST-60	W-1243-2	75	20.5	8
27XM84	ST-42	S & T	W-1243-2	75	20.5	8
28AK82	RA-42	ST-60	W-1000-2	50	31	6
28AK84	RA-42	S & T	W-1000-2	50	31	6
28XM84	RA-42	S & T	W-1243-2	75	20.5	8

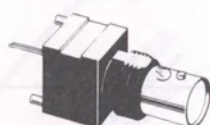
NOTE: ¹ S & T — Stripped & tinned. ST-60 is phono extension jack.



PC MOUNT BNC COMMERCIAL RECEPTACLES

Coaxial receptacles are designed for commercial RF connecting from 10 kHz to 1 GHz. All recep. are PC mount in boards up to .125 in. thick. Z = 50Ω. Available with straight or right angle PC terminals; gold, silver or tin plated contacts; and solder post or mounting holes. Interchangeable with AMP and National Tel Tronics. All recep. also have threaded bushing mount for panels up to .25 in. thick (mtg. hardware supplied). Dim.: (straight) — 1.669 in. lg. x .578 in. w. x .6 in. thick. (right angle) — 1.382 in. lg. x .578 in. w. x .787 in. thick (incl. terminals).

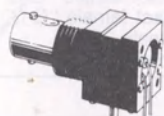
STRAIGHT RECEPTACLES (Vertical Mount)



No. BNC-STPC-2000

Part Numbers			Features		
Gold Plated Contacts	Silver Plated Contacts	Tin Plated Contacts	Insulator Color	Mounting	Hardware
BNC-STPC-1000	BNC-STPC-2000	BNC-STPC-3000	Black	Solder	No
BNC-STPC-1001	BNC-STPC-2001	BNC-STPC-3001		Post	Yes
BNC-STPC-1010	BNC-STPC-2010	BNC-STPC-3010		Holes	No
BNC-STPC-1011	BNC-STPC-2011	BNC-STPC-3011			Yes
BNC-STPC-1900	BNC-STPC-2900	BNC-STPC-3900	White	Solder	No
BNC-STPC-1901	BNC-STPC-2901	BNC-STPC-3901		Post	Yes
BNC-STPC-1910	BNC-STPC-2910	BNC-STPC-3910		Holes	No
BNC-STPC-1911	BNC-STPC-2911	BNC-STPC-3911			Yes

RIGHT ANGLE RECEPTACLES



No. BNC-RAPC-2000

BNC-RAPC-1000	BNC-RAPC-2000	BNC-RAPC-3000	Black	Solder	No
BNC-RAPC-1001	BNC-RAPC-2001	BNC-RAPC-3001		Post	Yes
BNC-RAPC-1010	BNC-RAPC-2010	BNC-RAPC-3010		Holes	No
BNC-RAPC-1011	BNC-RAPC-2011	BNC-RAPC-3011			Yes
BNC-RAPC-1900	BNC-RAPC-2900	BNC-RAPC-3900	White	Solder	No
BNC-RAPC-1901	BNC-RAPC-2901	BNC-RAPC-3901		Post	Yes
BNC-RAPC-1910	BNC-RAPC-2910	BNC-RAPC-3910		Holes	No
BNC-RAPC-1911	BNC-RAPC-2911	BNC-RAPC-3911			Yes

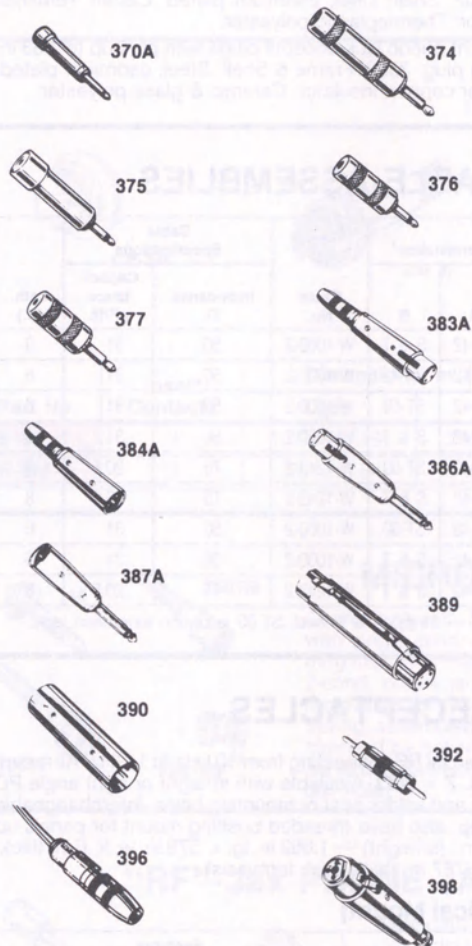
For detailed data on above products, ask for Switchcraft Catalogs 372 and 385.

NOTE: Contact your Switchcraft Representative for price & delivery.

ADAPTERS AND COUPLERS

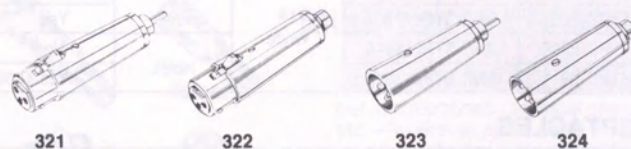
Adapters interconnect components and cables that do not have mating jacks and/or plugs. Positive mating contacts prevent resistive line-losses. Nos. 374, 376 & 377 have shielded, nickel-plated brass handles. No. 378 "Tini-Tee" adapter has 2 output jacks for

2 separate earphones. Allows two to listen at once from a single transistorized radio, tape recorder, etc. Two, single-cond. color-coded phone jack outputs to one 3-pin in-line input. Completely shielded 4 in. (101.6mm) long.



Part No.	Description
370A	Phono jack input to a 2-cond. Tini-Plug plug, .141 in. (3.58 mm) dia. finger output. Shielded.
374	Phone jack input to a 2-cond. Tini-Plug plug, .141 in. (3.58 mm) dia. finger output.
375	Phone jack input to a 2-cond. Micro-Plug plug, .097 in. (2.46 mm) dia. finger output.
376	Tini-Jax jack input to a 2-cond. Micro-Plug plug, .097 in. (2.46 mm) dia. finger output.
377	Micro-Jax jack input to a 2-cond. "Tini-Plug" plug, .141 in. (3.58 mm) dia. finger output.
381	Adapter cable 11 ft. (3.35 m) 2-cond. shielded cable from 3-cond. right angle phone plug to "Y" junction. 2, single-cond. shielded 1 ft. (.305 m) from "Y" junction to 2, 2-cond. phone plugs.
383A	3-contact Switchcraft A3F female microphone input to 3-cond. extension phone jack output.
384A	3-pin Switchcraft A3M male microphone input to 3-cond. extension phone jack output.
386A	3-contact Switchcraft A3F female microphone input to a standard 3-cond. phone plug output.
387A	3-pin Switchcraft A3M male microphone input to a standard 3-cond. phone plug output.
389	Coupler: 3-contact audio connector (Switchcraft A3F) at each end. Shielded.
390	Coupler: 3-pin male audio connector (Switchcraft A3M) at each end. Shielded.
392	Adapter: standard phone plugs on each end.
396	Adapter: miniature "Tini-Plug" 2-cond. plug, .141 in. (3.58 mm) dia. finger to 3-cond. extension jack .25 in. (6.35 mm) I.D. sleeve. Gray cable, shielded tip & ring springs interconnected.
398	Adapter: 3-contact Switchcraft A3F female mic. input to standard BNC connector output.

"Q-G" TO PHONO ADAPTERS



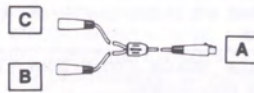
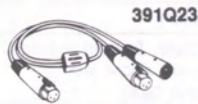
Fully shielded patching capability from any 3-pin or 3-contact "Q-G" or equivalent to phono plug or jack. Adapters require internal wiring connection.

Part No.	Adapter Termination
321	Phono plug to 3-contact female "Q-G"
322	Phono jack to 3-contact female "Q-G"
323	Phono plug to 3-pin male "Q-G"
324	Phono jack to 3-pin male "Q-G"

For detailed data on above products, ask for Switchcraft Catalogs A-404 and C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Q-G" "Y-Adapter" AUDIO ADAPTERS

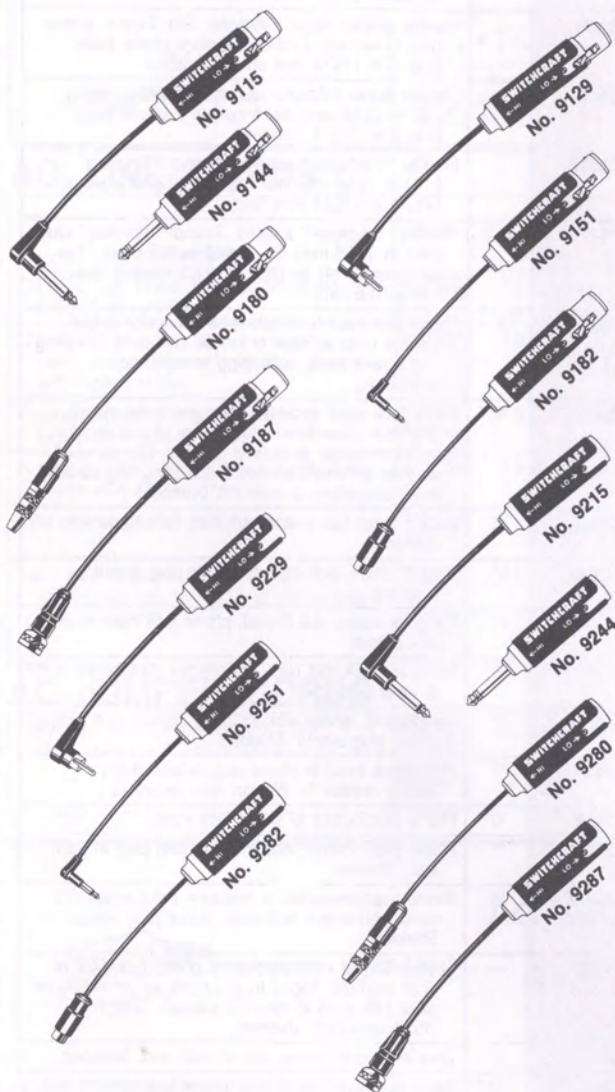


"Y-Adapter" Adapters: (1) parallel — 2 mic outputs or (2) split — two speaker outputs. All 3-pin and 3-contact plugs are Switchcraft "Q-G" type, gray shielded cable, molded junction protects against dust, dirt, moisture, abuse. "Quick-Ground" on all plugs (see page 42). Mates with Switchcraft "Q-G" and QGP connectors and compatible Amphenol and Cannon types.

Part No.	"Q-G" Cord Plugs Nos.		
	Plug A	Plug B	Plug C
391Q13	A3F	A3M	A3M
391Q23	A3F	A3M	A3F
391Q33	A3F	A3F	A3F
391Q43	A3M	A3F	A3F
391Q53	A3M	A3F	A3M
391Q63	A3M	A3M	A3M

SERIES 9000 — IMPEDANCE MATCHING TRANSFORMERS

Offers low-loss interconnection between high and low impedance equipment. Mu metal shielding protects against spurious electrostatic and r.f. fields. Units are bi-directional (low to hi; hi to low). Designed to mate with full line of Switchcraft "QG" connectors. Available with various terminations; **see chart.**



Electrical Specifications:

Freq. Response: Flat — 20Hz to 20kHz ± 2 dB

Impedance: High — 50k ohms (nom.)
Low — 150 ohms (nom.)

Voltage Step Ratio: Low to High: +28 (typ.)
(input power load) High to Low: -28 (typ.)

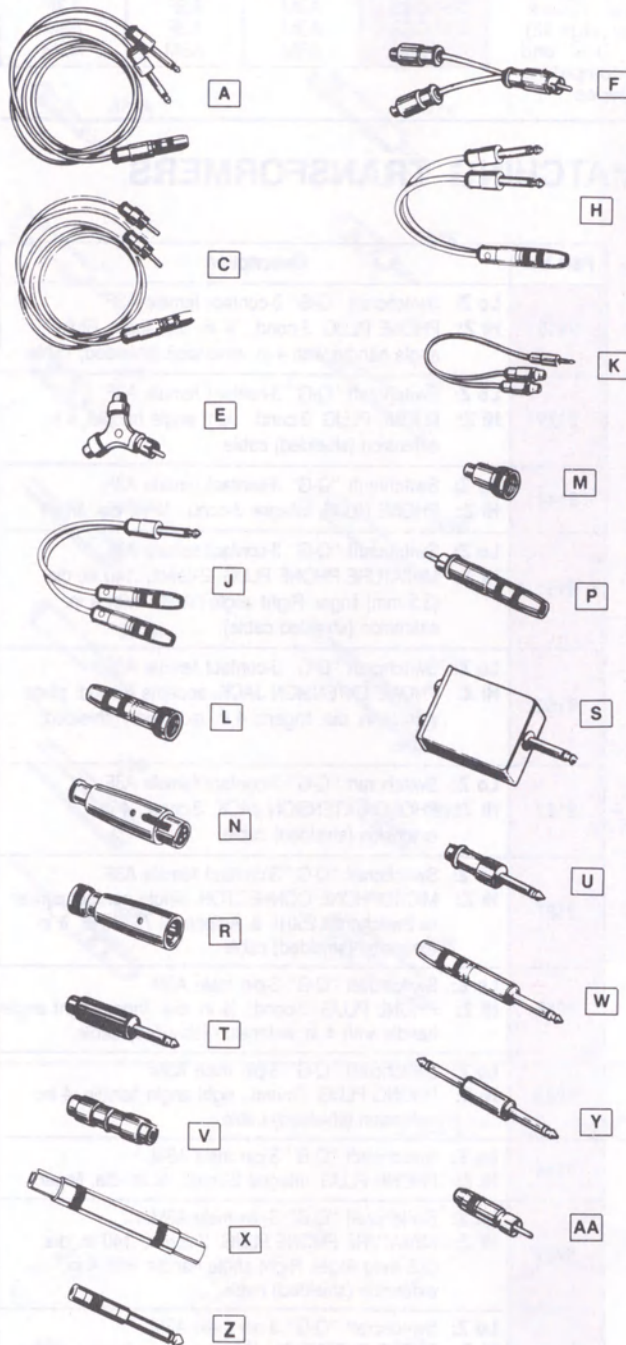
Part No.	Description
9115	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: PHONE PLUG. 2-cond., 1/4 in. dia. finger. Right angle handle with 4 in. extension (shielded) cable.
9129	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: PHONO PLUG. 2-cond., right angle handle, 4 in. extension (shielded) cable.
9144	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: PHONE PLUG. integral 2-cond., 1/4 in. dia. finger
9151	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: MINIATURE PHONE PLUG. 2-cond., .140 in. dia. (3.5 mm) finger. Right angle handle with 4 in. extension (shielded) cable.
9180	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: PHONE EXTENSION JACK. accepts 2-cond. plugs with 1/4 in. dia. fingers. 4 in. extension (shielded) cable.
9182	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: PHONO EXTENSION JACK. 2-cond., 4 in. extension (shielded) cable.
9187	Lo Z: Switchcraft "Q-G" 3-contact female A3F. Hi Z: MICROPHONE CONNECTOR. single contact similar to Switchcraft 2501F & Amphenol 75-MC1F. 4 in. extension (shielded) cable.
9215	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: PHONE PLUG. 2-cond., 1/4 in. dia. finger. Right angle handle with 4 in. extension (shielded) cable.
9229	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: PHONO PLUG. 2-cond., right angle handle, 4 in. extension (shielded) cable.
9244	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: PHONE PLUG. integral 2-cond., 1/4 in. dia. finger.
9251	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: MINIATURE PHONE PLUG. 2-cond., .140 in. dia. (3.5 mm) finger. Right angle handle with 4 in. extension (shielded) cable.
9280	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: PHONE EXTENSION JACK. accepts 2-cond. plugs with 1/4 in. dia. fingers. 4 in. extension (shielded) cable.
9282	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: PHONO EXTENSION JACK. 2-cond., 4 in. extension (shielded) cable.
9287	Lo Z: Switchcraft "Q-G" 3-pin male A3M. Hi Z: MICROPHONE CONNECTOR. single contact similar to Switchcraft 2501F & Amphenol 75-MC1F. 4 in. extension (shielded) cable.

For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

ADAPTERS

Complete line of adapters for interconnecting components that do not have mating jacks and/or plugs. For hi-fi stereo, phonographs, tuners, tape recorders, amplifiers, P.A. systems, etc. Positive mating contacts prevent resistive line losses. Nickel plated finish for long life. No. 352A converts stereo headphones and/or microphones to a monaural input.



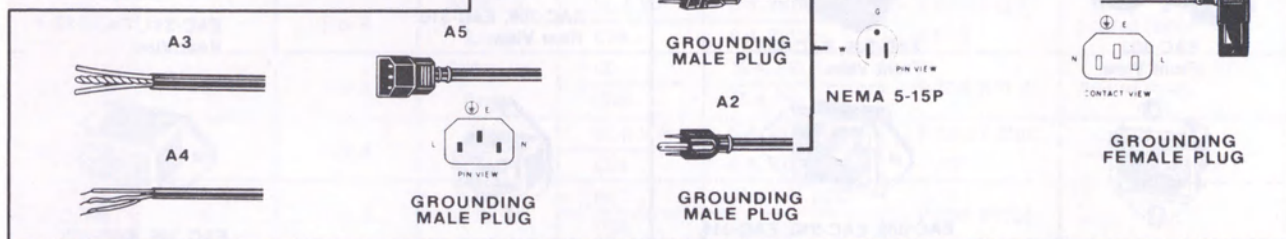
Part No.	Fig.	Description
05FH81	A	Stereo Headphone Adapter Cable. Two std. 2-cond. phone plugs wired to a 3-cond. phone jack. Shielded, 4 ft. (1.22 m) stereo cable.
25FH81	C	Std. 3-cond. extension phone jack to two phono plugs. Shielded 4 ft. (1.22m) gray stereo cable. Color coded.
330F	E	"Y-Adapter" adapter, 2 phono jacks in parallel to a phono plug. Shielded.
330F1	F	Flexible "Y-Adapter" adapter phone plug in parallel to 2 phono jacks. Shielded 4 in. (101.6 mm) cable.
330F2	—	Same as above, but phono plug and phono jack to a phono plug.
330F3	—	Same as above, but 2 phono plugs to 1 phono plug.
330PJ	—	Y-Adapter, as above, except two phono jacks in parallel to a 2-cond. phone plug. Shielded.
330Q	H	Flexible molded Audio Y-Adapter. Std. 2-cond. extension phone jack to two std. 2-cond. phone plugs. Gray 6 in. (152.4 mm) shielded cables.
330R	J	Flexible molded Audio Y-Adapter. Std. 2-cond. phone plug to two std. 2-cond. extension phone jacks. Gray 6 in. (152.4 mm) shielded cables.
330T1	—	Flexible Audio Y-Adapter, 2-cond. "Tini-Plug" [plug .141 in. (3.58 mm) dia. finger] to 2 phone jacks. Gray 6 in. (152.4 mm) long.
330T2	—	Flexible "Y-Adapter" adapter, 2-cond. "Tini-Plug" [.141 in. (3.58 mm) dia. finger] to 2 phono plugs. Gray 6 in. (152.4 mm) long.
330T3	K	Flexible "Y-Adapter" adapter, 2-cond. "Tini-Plug" plug [.141 in. (3.58 mm) dia. finger] to 2, 2-cond. "Tini-Jax" jacks [.141 in. (3.58 mm) I.D. sleeve]. Gray, 4 in. (101.6 mm).
332A	L	Phone jack input to female mike connector output. Can be used as male or female connector (coupling ring screws back, converting to male mic connector.)
334A	M	Phono jack input to female mike connector output. Shielded. Unsoldered internal wire at one end for user connection to desired terminal. Can be used as male or female connector (coupling ring screws back, converting to male mic connector.)
335A	N	2-cond. input has Switchcraft 2501 MP1 to output connector.
336A	P	2-cond. phone jack input to phono plug output. Shielded.
336B	—	Same as above, but 2-cond. phone jack input to phono jack output.
339A	R	Same as 335A, but output connector Switchcraft 2501F to input connector.
340	S	Two 2-cond., phone jack inputs in parallel to a 2-cond. phone plug output. Shielded.
343	T	Phono jack input to phone plug output. Built-in limiting resistor for Webcor tape recorders.
345A	U	Phone plug output to phono jack input.
349A	V	Phono plug coupler, mates with phono plug at each end. Shielded.
352A	W	Stereo headphone/mic to monaural input adapter. 3-cond. phone jack to 2-cond. phone plug output. Shielded.
353C	—	Flexible Stereo Adapter, 3-cond. phone plug [.25 in. (6.35 mm) dia. finger] to 2, 3-cond. extension phone jacks [.25 in. (6.35 mm) I.D. sleeve]. Gray, 6 in. (152.4 mm) long, shielded.
361A	X	Coupler 2-cond. phone jack at each end. Shielded.
362A	—	Same as above, but 3-cond. phone jack at each end.
363	Y	Coupler, 2-cond. phone plug at each end. Shielded.
364A	Z	2-cond. "Tini-Jax" jack [.141 in. (3.58 mm) dia. sleeve] to 2-cond. .25 in. (6.35 mm) O.D. phone plug. Shielded.
365	AA	2-cond. "Tini-Jax" jack (as above) input to phono jack output. Shielded.

For detailed data on above products, ask for Switchcraft Catalogs A-404 and C-502 .

NOTE: Contact your Switchcraft Representative for price & delivery.

AC LINE CORDS, AC JUMPER CORDS

Primary power and jumper connections in U.S.A., Canadian and European electrical/electronic equipment (test equipment, business machines, electronic instruments, computers, appliances). Cords have various plug terminations or are unterminated to accept plugs for various European countries. AC jumper cords designed for cabinet-to-cabinet power interconnections. All cords have rugged black vinyl jacket (Type SVT for 10 A; type SJT for 15 A). Refer to "EUROPEAN AC RECEPTACLES" listing for recommended mating receptacles. U.L. Card E81919, C.S.A. card LR 37250.



AC LINE CORDS

Description	Part No.	Cord Length ft. (m)	AWG (Stranding) Dia., in. mm	Nominal O.D. in. (mm)	Rating W	Cordage & Color	Terminations	
							End A	End B
U.L. & C.S.A. listed; National Stock No. 6150-00-351-3405	P-2392	7.5 (2.29)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A1	B1
U.L. listed, blue flag label. European color coding (Brown, Light Blue, Green with Yellow stripe).	P-2727	7.5 (2.29)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A2	B1
European color coding (Brown, Light Blue Green with Yellow stripe).	P-2723	7.5 (2.29)	14 (41 x 30) (1.19)	.385 (9.78)	1875 (15A, 125V)	SJT Vinyl Black	A1	B1
European color coding (Brown, Light Blue Green with Yellow stripe).	P-2720	7.5 (2.29)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A2	B2
One end stripped 2 in. (50.8 mm)	P-2728	7.5 (2.29)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A3	B1
Each lead stripped .625 in. (15.88mm) and conductors twisted one end stripped 2 in. (50.8 mm)	P-2724	7.5 (2.29)	14 (41 x 30) (1.19)	.385 (9.78)	1875 (15A, 125V)	SJT Vinyl Black	A3	B1
	P-2722	7.5 (2.29)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A4	B2

AC JUMPER CORDS

European color coding (Brown, Light Blue, Green with Yellow stripe).	P-2721	3.38 (1)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A5	B2
	P-2725	3.38 (1)	18 (41 x 34) (1.19)	.253 (6.43)	1250 (10A, 125V)	SVT Vinyl Black	A5	B1

AC RECEPTACLES



Switchcraft No. LAC3G

3-pin receptacles for all electrical/electronic equipment. "Chassis hugging" recessed type mounting. Brass contact pins are silver plated & chromate dipped.

Part Nos. AC3 and LAC3 (ungrounded) and **Part Nos. AC3G and LAC3G** (grounded), include a self-aligning feature which allows movement of pins No. 1 and No. 3 in the shell to take up any slight off-centering of the mating plug contacts. The center pin

No. 2, is stationary and serves as a guide.

Receptacles AC3 and AC3G have .122 in. (3.10 mm) dia. pins and mate with custom AC line cords such as Belden PH-243.

Part No. LAC3GD, same as **LAC3G**, except center pin is .125 in. (3.18 mm) longer to permit ground circuit to "make" before power circuits "make".

Receptacles **LAC3, LAC3G and LAC3GD** have, .124 in. (3.15 mm) dia. pins and mate with std. A.C. line cords such as Belden 17258.

All types are U.L. approved. **Part No. LAC3GD** is also C.S.A. approved. Rating: 115 V, 7A.

For detailed data on above products, ask for Switchcraft Catalog C-502.

NOTE: Contact your Switchcraft Representative for price & delivery.

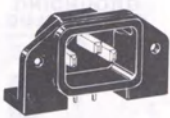
European AC Receptacles

SWITCHCRAFT

Primary power receptacles are designed to meet specifications of the IEC 320/CEE 22, Series EAC 3-pin/contact grounding type primary power receptacles have orbitally riveted lugs* which provide a superior mechanical/electrical connection. Available with short, standard or long solder lugs or FASTON® terminals. EAC series include a variety of front and rear mount receptacles meeting appropriate UL, CSA and VDE specifications.

Male or female receptacles are designed for use in European and domestic instrumentation, power rack mounted devices, test equipment and appliances. Male receptacles have .125 in. (3.18 mm) longer center (ground) pin. Ground circuit is established before power circuits "make", and is maintained until after power circuits "break". Extended socket versions permit minimum behind panel depth.

*Nos. EAC-303, -305, -306, -323, -324, -325, -326 do not have orbitally riveted lugs.



EAC-303
Front View



EAC-305, EAC-306
Front View



EAC-307, EAC-308, EAC-313,
EAC-314, EAC-317, EAC-318
Front View



EAC-309, EAC-310, EAC-311,
EAC-312, EAC-315, EAC-316,
EAC-319, EAC-320, EAC-327
Front View



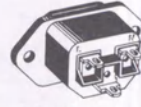
EAC-321, EAC-322
Front View



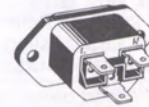
EAC-323, EAC-324
Front View



EAC-325, EAC-326
Front View



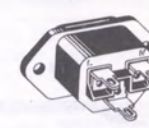
EAC-309, EAC-310
Rear View



EAC-311, EAC-312
Rear View



EAC-313, EAC-314
Rear View



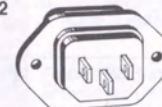
EAC-315, EAC-316
Rear View



EAC-321, EAC-322
Rear View



EAC-323, EAC-324
Front View



EAC-325, EAC-326
Rear View

EAC-E03 — 3-pin male receptacle with right angle housing for PC board mount. PC terminals project .125 in. (3.18 mm) to extend through PC board. Rear of panel mount. Two, .136 in. (3.45 mm) dia. holes permit fastening to PC board; two additional .136 in. (3.45 mm) holes for fastening to panel or chassis if required. Ground pin is integral with the ground solder lug on rear of receptacle.

EAC-305 — 3-contact female receptacle. Front mount with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-306 — 3 contact female receptacle, similar to EAC-305 except higher current rating.

EAC-307 — 3-pin male receptacle with long solder lug terminals. Rotated flange housing. Mounts from front or rear of panel with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-308 — 3-pin male receptacle, similar to EAC-307 except higher current rating.

EAC-309 — 3-pin male receptacle with standard lug terminals. Mounts from front or rear of panel with 2, #5 screws or .125 in. (3.18 mm) dia. rivets (not supplied).

EAC-310 — 3-pin male receptacle, similar to EAC-309 except higher current rating.

EAC-311 — 3-pin male receptacle with FASTON terminals. Mounts from front or rear of panel with 2, #5 screws or .125 in. (3.18 mm) dia. rivets (not supplied).

EAC-312 — 3-pin male receptacle, similar to EAC-311 except higher current rating.

EAC-313 — 3-pin male receptacle with standard solder lug terminals. Rotated flange housing. Mounts from front or rear of panel with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-314 — 3-pin male receptacle, similar to EAC-313 except higher current rating.

EAC-315 — 3-pin male receptacle with long solder lug terminals. Mounts from front or rear of panel with 2, #5 screws or .125 in. (3.18 mm) dia. rivets (not supplied).

EAC-316 — 3-pin male receptacle, similar to EAC-315 except higher current rating.

EAC-317 — 3-pin male receptacle with FASTON terminals. Rotated flange housing. Mounts from front or rear of panel with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-318 — 3-pin male receptacle, similar to EAC-317 except higher current rating.

EAC-319 — 3-pin male receptacle with short solder lug terminals. Mounts from front or rear of panel with 2, #5 screws or .125 in. (3.18 mm) dia. rivets (not supplied).

EAC-320 — 3-pin male receptacle, similar to EAC-319 except higher current rating.

EAC-321 — 3-pin male receptacle with short solder lug terminals. Pre-tapped mounting studs provide quick installation from the rear utilizing 2, #6-32 screws (not supplied).

EAC-322 — 3-pin male receptacle, similar to EAC-321 except higher current rating.

EAC-323 — 3-pin male receptacle with short solder lug terminals. Extended socket housing (mounting flange on rear of receptacle) provides more behind panel clearance. Mounts with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-324 — 3-pin male receptacle, similar to EAC-323 except higher current rating.

EAC-325 — 3-contact female receptacle with short solder lug terminals. Extended housing (mounting flange on rear of receptacle) provides more behind panel depth. Mounts with 2, #4 screws or .094 in. (2.38 mm) dia. rivets (not supplied).

EAC-326 — 3-contact female receptacle, similar to EAC-325 except higher current rating.

EAC-327 — 3-pin male receptacle, similar to EAC-319 except with standard solder lugs.

For detailed data on above products, ask for Switchcraft Catalog 373.

NOTE: Contact your Switchcraft Representative for price & delivery.

Specifications

Shell: Black polyester, EAC-303, EAC-307 through EAC-324 and EAC-327.

Shell: Black polycarbonate EAC-305, EAC-306, EAC-325, EAC-326.

Pins & Terminals: Brass, silver plated (EAC-303). Brass, silver plated & electrotinned (EAC-323, EAC-324).

Contacts & Terminals: Brass, chromate bright dip (EAC-305, EAC-306, EAC-325, EAC-326).

Pins: Brass, silver plated (EAC-307 through EAC-322 and EAC-327).

Terminals: Brass electrotinned (EAC-307 through EAC-322 and EAC-327).

Part No.	Pins/ Contacts ¹	Mounting ²	Terminals	Listings	Ratings	Switchcraft Mating No. ³	Comments
EAC-303	M	R	PC	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2722, P-2725, P-2727, P-2728	Right Angle Housing
EAC-305	F	F	Solder Lug	UL & VDE* CSA	6 A, 250 V AC 6 A, 250 V	P-2721, P-2725	*Certificate of Compliance
EAC-306	F	F	Solder Lug	UL CSA	15 A, 250 V AC 15 A, 250 V	---	---
EAC-307	M	F or R	Solder Lug (Long)	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	Rotated Flange
EAC-308	M	F or R	Solder Lug (Long)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	Rotated Flange
EAC-309	M	F or R	Solder Lug	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	---
EAC-310	M	F or R	Solder Lug	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	---
EAC-311	M	F or R	FASTON	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	---
EAC-312	M	F or R	FASTON	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	---
EAC-313	M	F or R	Solder Lug	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	Rotated Flange
EAC-314	M	F or R	Solder Lug	UL CSA	15 A, 250 V 15 A, 250 V	P-2723, P-2724	Rotated Flange
EAC-315	M	F or R	Solder Lug (Long)	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	---
EAC-316	M	F or R	Solder Lug (Long)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	---
EAC-317	M	F or R	FASTON	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2393, P-2720, P-2721	Rotated Flange
EAC-318	M	F or R	FASTON	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	Rotated Flange
EAC-319	M	F or R	Solder Lug (Short)	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	---
EAC-320	M	F or R	Solder Lug (Short)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	Approvals pending
EAC-321	M	R	Solder Lug (Short)	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V AC	P-2392, P-2720, P-2721	Pre-tapped mtg. studs
EAC-322	M	R	Solder Lug (Short)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	Pre-tapped mtg. studs; Approvals pending
EAC-323	M	R	Solder Lug (Short)	UL & VDE CSA	10 A, 250 V AC 10 A, 250 V	P-2392, P-2720, P-2721	Mtg flange on rear Approvals pending
EAC-324	M	R	Solder Lug (Short)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2723, P-2724	Mtg. flange on rear
EAC-325	F	R	Solder Lug (Short)	UL & VDE CSA	10 A, 250 V AC 10 A, 250 V	P-2721, P-2725	Mtg. flange on rear Approvals pending
EAC-326	F	R	Solder Lug (Short)	UL CSA	15 A, 250 V AC 15 A, 250 V	P-2721, P-2725	Mtg. flange on rear
EAC-327	M	F or R	Solder Lug	UL & VDE CSA	6 A, 250 V AC 6 A, 250 V	P-2392, P-2720, P-2721	---

NOTES: ¹ M = Male; F = Female.

² F = Front; R = Rear.

³ See page 55 for specifications. Also mates with Belden and other standard cords.

For detailed data on above products, ask for Switchcraft Catalog 373.

NOTE: Contact your Switchcraft Representative for price & delivery.

Littel-Jax PHONE JACKS

Quality phone jacks that mate with standard .25 in. (6.35 mm) or .21 in. (5.33 mm) phone plugs. Notched insulating washers mechanically interlock springs and solder lugs. "V" bend in tip spring firmly holds mating plug. Minimum space requirements. Mounts in single .375 in. (9.52 mm) hole, panels up to .156 in. (3.96 mm) thick, except L-11 and L-12A in panels up to .25 in. (6.35 mm) thick. PC-12A; std. .25 in. (6.35 mm) dia. bushing.

Littel-Jax PHONE JACKS with QUICK CONNECT TERMINALS. Littel-Jax jacks, Nos. FA-11 & FAL-11 with quick connect terminals accept AMP FASTON® 205 Series receptacles. Mounts in .375 in. (9.52 mm) dia. holes on 1.375 in. (34.92 mm) centers (min.) Locknut and washer supplied. *Trademark of AMP INC.

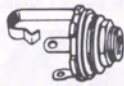
TWO CONDUCTOR TYPES

Part No.	Schematic No.	Typical Mating Plug	MIL-Type	Description
11	I	250	—	Open circuit
C-11	I	440, 445, 470 ¹	MIL Type JJ-034, Part No. M641/6-1	With locating pin (non-turn device)
FA-11	I	250	—	AMP FASTON 205 Series. Quick connect terminals.
FAL-11	I	250	—	.375 in. (9.52 mm) lg. bushing. Quick connect terminals.
L-11	I	250	—	.375 in. (9.52 mm) lg. bushing
S-11	I	S-250	—	.210 in. (5.33 mm) I.D. bushing
12A	III	250	—	Tip shunt
C-12A	III	440, 445, 470 ¹	MIL Type JJ-089, Part No. M641/12-1	—
L-12A	III	250	—	.375 in. (9.52 mm) lg. bushing
S-12A	III	S-250	—	.210 in. (5.33 mm) I.D. bushing
PC-12A	III	250	—	P.C. board mtg.
13	V	250	—	Isolated "make" circuit
13A	VI	250	—	Transfer circuit
13E	IX	250	—	Isolated "break" circuit

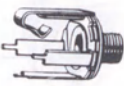
NOTE: ¹ Mating Plugs — PJ-055B, M642/4-1; PJ-055R, M642/4-2; PJ-055M, 642/4-3.

THREE CONDUCTOR TYPES

12B	IV	267	—	Double open circuit
C-12B	IV	480 (PJ-068, M642/5-1)	MIL Type JJ-033, Part No. M641/5-1	—
L-12B	IV	267	—	.375 in. (9.52 mm) lg. bushing
S-12B	IV	480 (PJ-068, M642/5-1)	—	.21 in. (5.33 mm) I.D. bushing
13B	VII	267	—	Tip shunt
S-13B	VII	480 (PJ-068, M642/5-1)	—	.21 in. (5.33 mm) I.D. bushing
14B	XII	267	—	Double closed circuit



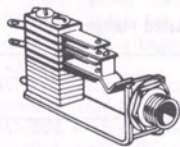
C-11



PC-12A



FA-11



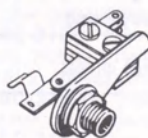
Series 30 — "LF-Jax" LONG FRAME JACKS

Long frame phone jacks have ground lug integral with frame. Welded fine silver cross bar contacts rated at 8 A, 125 V AC. Mounts in single .375 in. (9.52 mm) dia. hole in panels up to .25 in. (6.35 mm) thick. Mounting centers .625 in. (15.88 mm) min. Behind panel depth: 2.781 in. (70.64 mm). For non-turn mtg. device, prefix part no. with letter "R".

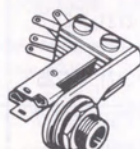
Part No.	Schematic No.	Typical Mating Plug	Cond.
31	I	250	2
32B	IV	267	3
34B	XII	267	3
36	XIV	267	3

"SF-Jax" SHORT FRAME JACKS

Long spring design reliability with minimum behind-panel depth. Series 50 same as Series 20, except solder lug location necessitates more depth, but requires less panel space. No. C55B has MIL type insulation & finish.



SERIES 20



SERIES 50

Part No.	Cond.	Schematic No.	Typical Mating Plug	MIL Type	Contacts	Rating	Mounting In. (mm)
24B	3	XII	267	—	Fine silver	3 A 125 V AC	.375 (9.52) hole, mounts in panels up to .156 (3.96) thick.
25	2	XIII	250	—			
53B	3	VII	267	—			
54A	2	XI	250	—			
54B	3	XII	267	—			
55	2	XIII	250	—			
C-55B	3	XV	482	JJ-095, M641/14-1			

For detailed data on above products, ask for Switchcraft Catalog J-104.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Thick-Panel Jax" THICK PANEL JACKS



151

Brass, nickel-plated phone jacks with long bushing. Ideal for use with microphones; extra shielding virtually eliminates audio hum. Mounts in .469 in. (11.91 mm) dia. hole in panels up to 1.25 in. (31.75 mm) thick. Solder lug terminals.

Part No.	Cond.	Typical Mating Plug
151	2	240, 245, 250, 255, 270, 280
152B	3	260, 267, 269, 297

"Shielded-Jax" SHIELDED PHONE JACKS

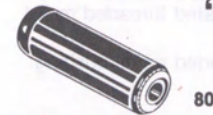


CN-12A

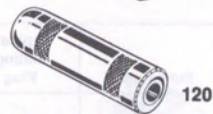
A unique modification of Littell-Jax Jack. Shield is assembled into and made part of the jack. Ideal for high impedance circuits.

Part No.	Schematic No.	Typical Mating Plug	Cond.
CN-11	I	250	2
CN-12A	III		

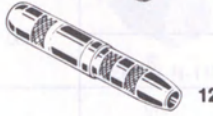
"Extension-Jax" CABLE EXTENSION JACKS



80



120



121, 131

Standard .25 in. (6.35 mm), 2 and 3 cond. extension phone jacks with solder lugs or screw terminals. Size: .688 in. (17.48 mm) O.D.; 2.156 in. (54.76 mm) lg.; Part Nos. 121 and 131: .5 in. (12.7 mm) O.D.; 2.5 in. (63.5 mm) lg. Black plastic handles. Shielded handles: brass, bright nickel plated.

Part No.	Cond.	Typical Mating Plug	Term.	Handle
80	2	240	Screw	Black
88	2	250	Solder	Black
120	2	270	Screw	Shielded
121	2	280	Solder	Shielded
128	2	280	Solder	Shielded
131	3	297	Solder	Shielded
830	3	260	Screw	Black
S-830 ¹	3	480	Screw	Black
838	3	267	Solder	Black
1230	3	290	Screw	Shielded
1238	3	297	Solder	Shielded

NOTE: ¹ .210 in. (5.33 mm) sleeve.

JACK COVERS



510

Spring-loaded phone jack covers seal jack openings when phone plug is removed. Protects against dust and moisture. **Series 500** — Use with standard 3/8"-32 threaded bushing type phone jacks. **Series 600** — Use with certain type tip jacks with 1/4" mounting; height of tip jack head 1/8" to 3/16" — can be supplied for use on Tini-Jax jacks, "Power-Jax" jacks and "Unijax" jacks. Contact Switchcraft for all Series 600 Jack Covers.

Part No.	Color
510	—
512	612
515	615
520	620

Tini-Jax MINIATURE PHONE JACKS

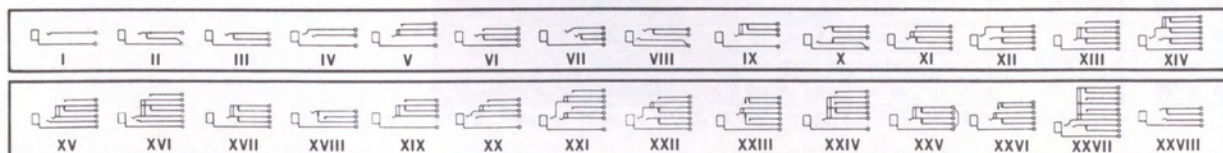


41

Miniature 2-cond. phone jacks, approximately 1/3 the size of Littell-Jax jack, otherwise similar in construction. Mounts in .25 in. (6.35 mm) dia. hole; panels up to .125 in. (3.18 mm) thick. No. 43A has unique spring design requiring a pear-shaped tip, such as on Switchcraft Tini-Plug No. 750.

Part No.	Schematic No.	Typical Mating Plug	Cond.
41	I	750	2
42A	III	750	2
43A	Note 1	750	2

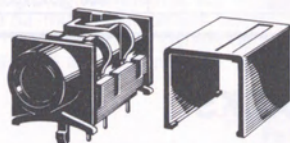
NOTE: ¹ Special transfer circuit. When inserted, plug tip contacts "make" tip spring. Further insertion allows tip to short "make" tip spring and tip spring together. Full insertion opens tip short circuit.



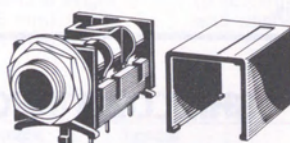
For detailed data on above products, ask for Switchcraft Catalog J-104.

NOTE: Contact your Switchcraft Representative for price & delivery.

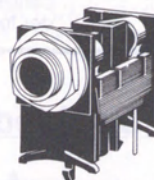
RIGHT ANGLE PHONE JACKS



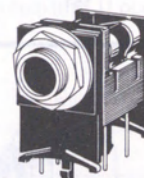
No. SN37A-14 with
Cover No. P-2993



No. SN49B-12B with
Cover No. P-2994



No. SN70B-12A



No. SN70C-14B

2 & 3-cond., low profile right angle phone jacks snap into PC boards up to .062 in. thick. Jacks accept phone plugs with .25 in. dia. fingers. Location pin assures correct mounting, and molded housing protects internal parts and allows high density packaging. Series SN37A comes with a snap-on cover standard. Series SN49A and SN49B can be supplied with snap-on covers on special order only.

Series SN37A — .375 in. high, plastic non-threaded bushing.

Series SN49A — .492 in. high, insulated non-threaded metal bushing.

Series SN49B — .492 in. high, insulated threaded metal bushing.

Series SN49C — .492 in. high, threaded metal bushing.

Series SN70B — .708 in. high, insulated threaded metal bushing.

Series SN70C — .708 in. high, threaded metal bushing.

Series SN37A ¹	Series SN49A ¹	Series SN49B ¹	Series SN49C	Series SN70B	Series SN70C	Description	Schematic ³	Typical ² Mating Plug
SN37A-11	SN49A-11	SN49B-11	SN49C-11	SN70B-11	SN70C-11	2-cond. open circuit	I	250
SN37A-12A	SN49A-12A	SN49B-12A	SN49C-12A	SN70B-12A	SN70C-12A	2-cond. shunt on tip	III	
SN37A-12B	SN49A-12B	SN49B-12B	SN49C-12B	SN70B-12B	SN70C-12B	3-cond. double open circuit	IV	260
SN37A-14B	SN49A-14B	SN49B-14B	SN49C-14B	SN70B-14B	SN70C-14B	3-cond. double closed circuit	XII	

NOTES: ¹ Series SN37A supplied with **Part No. P-2993** cover. Series SN49A and SN49B can be supplied with **Part No. P-2994** cover on special order. Contact Switchcraft.

² See pages 68 through 70 for other mating plugs.

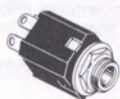
³ See page 59 for jack schematics.

For detailed data on above products, ask for Switchcraft Catalog J-104.

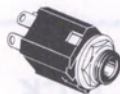
NOTE: Contact your Switchcraft Representative for price & delivery.

Hi-D Jax ENCLOSED PHONE JACKS

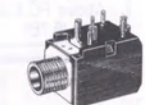
Series 110: Smaller, compact phone jacks mate with std. .25 in. (6.35 mm) phone plugs. Molded body protects integral silver-plated springs. Low contact resistance; low electrical leakage and low capacity between springs. Mounts on .625 in. (15.88 mm) center in single .375 in. (9.52 mm) hole in panels up to .156 in. (3.96 mm) thick, depth behind panel 1.094 in. (27.79 mm). All jacks with "M" prefix designed and adjusted to mate with telephone and MIL-std. plugs. Jacks with PC terms, mount to single, double-sided and multilayer boards up to .094 in. (2.39 mm) thick. Standoff shoulders; mounting hardware supplied.



SERIES 110



SERIES N-110



SERIES RN-110

Series RN-110: Right angle jack, saves mounting space on PC boards for commercial and telephone/MIL applications. Available in 2- and 3-cond. types with or without shunt circuits; all mate with .25 in. (6.35 mm) dia. COMMERCIAL or TELEPHONE/MIL plug finger configurations. Right angle jack permits tip of mating plug to be inserted parallel with PC board. Can be mtd. on PC boards, combined PC board and panel/chassis, or panel/chassis only. Jack bushing mounts through .375 in. (9.52 mm) dia. hole in panels or chassis up to .141 in. (3.58 mm) thick. Mtg. centers .625 in. (15.88 mm) min. Washer & locknut supplied.

TWO CONDUCTOR TYPES

Part No.		Description	Schematic	Typical Mating Plugs
Solder Lugs	PC Terminals			
111	111PC	Open circuit	I	250
N-111	N-111PC	Molded nylon bushing	I	250
NL-111	—	.375 in. (9.52 mm) lg. molded nylon bushing	I	250
112A	112APC	Single closed circuit	III	250
L-112A	L-112APC	.375 in. (9.52 mm) lg. metal bushing	III	250
M-112A	—	Single closed circuit metal bushing	III	420 ¹
MN-112A	MN-112APC	Single closed circuit molded nylon bushing	III	420 ¹
N-112A	N-112APC	Molded nylon bushing	III	250
NL-112A	—	.375 in. (9.52 mm) lg. molded nylon bushing	III	250
113	113PC	Isolated "make" circuit	V	250
N-113	—	Molded nylon bushing	V	250
113D	113DPC	Transfer circuit (1-C)	VI ²	250
113E	113EPC	Isolated "break" circuit	IX	250
—	RN-111PC	Single open circuit, right angle	I	250 or 420 ¹
—	RN-112APC	Single closed circuit, right angle	III	250 or 420 ¹

NOTE: ¹ Mating Plugs — PJ-047B, 420, M642/1-1; PJ-047R, 425, M642/2-1.

² Two tip springs.

THREE CONDUCTOR TYPES

Part No.		Description	Schematic	Typical Mating Plugs
Solder Lugs	PC Terminals			
112B	112BPC	Double open circuit	IV	267
L-112B	—	.375 in. (9.52 mm) lg. bushing	IV	267
M-112B	M-112BPC	25 in. (6.35 mm) I.D. sleeve. Metal bushing.	IV	482 ¹
NL-112B	—	.375 in. (9.52 mm) lg. molded nylon bushing.	IV	267
MN-112B	MN-112BPC	25 in. (6.35 mm) I.D. sleeve. Molded nylon bushing.	IV	482 ¹
N-112B	N-112BPC	Molded nylon bushing.	IV	267
113B	113BPC	Single closed circuit.	VII	267
L-113B	—	.375 in. (9.52 mm) lg. bushing	VII	267
N-113B	N-113BPC	Molded nylon bushing.	VII	267
NL-113B	—	.375 in. (9.52 mm) lg. molded nylon bushing.	VII	267
113F	113FPC	Ring circuit closed.	XXVIII	267
114B	114BPC	Double closed circuit	XII	267
L-114B	L-114BPC	.375 in. (9.52 mm) lg. bushing	XII	267
M-114B	M-114BPC	25 in. (6.35 mm) I.D. sleeve. Metal bushing.	XII	482
MN-114B	MN-114BPC	25 in. (6.35 mm) I.D. sleeve. Molded nylon bushing.	XII	482
N-114B	N-114BPC	Molded nylon bushing.	XII	267
NL-114B	—	.375 in. (9.52 mm) lg. molded nylon bushing.	XII	267
—	RN-112BPC	Double open circuit.	IV	267 or 482 ¹
—	RN-113BPC	Tip closed, ring open	VII	267 or 482 ¹
—	RN-113FPC	Tip open, ring closed.	XXVIII	267 or 482 ¹
—	RN-114BPC	Double closed circuit.	XII	267 or 482 ¹

NOTE: ¹ Mating Plugs — PJ-051R, 482, M642/2-2; PJ-051B, 483, M642/2-1.

For detailed data on above products, ask for Switchcraft Catalog J-104.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Tini-Extension Jax" MINIATURE CABLE EXTENSION JACK



125

An extension or cable jack mates with 2-cond. "Tini-Plug" plugs. Metal housing for ruggedness and electrical shielding. Solder lug terminals.

Switchcraft Part No. 125

"Tini-D Jax" MINIATURE ENCLOSED PHONE JACKS



PC-142A

Small, completely enclosed 2-cond. molded phone jack. Phenolic housing protects bifurcated beryllium copper springs from bending during mounting. Mounts on .375 in. (9.52 mm) centers in .25 in. (6.35 mm) dia. hole in panels up to .125 in. (3.18 mm) thick. Depth behind panel .625 in. (15.88 mm).

Part No.	Description	Schematic No.	Typical Mating Plug
142A	Bushing mount	III	750
PC-142A	PC board mount ¹		

NOTE: ¹ Threaded bushing for conventional mounting and special spring terminals that "snap-in" PC boards up to .125 in. (3.18 mm) thick.

Micro-Jax SUBMINIATURE PHONE JACKS



TR-2A

Miniaturized jack has 2-cond. single closed circuit. See Schematic Circuit III. Silver plated, special tempered nickel silver springs. Internally keyed nylon insulation interlocks springs and solder lugs to eliminate shorts. Fits .190 in. (4.83 mm) dia. hole in panels to .094 in. (2.39 mm) thick. Only 1/25th the size of standard phone jacks. Mates with Micro-Plug plug. Series 850, 880.

Switchcraft Part No. TR-2A

"Micro-D Jax" SUBMINIATURE ENCLOSED PHONE JACK



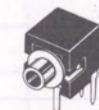
MDL-2A



MDL-2A-RA



MDPC-2A

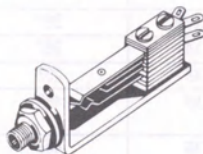


MDPC-2A-RA

"Super-small," shunted, fully enclosed jack — only .312 in. (7.92 mm) x .344 in. (8.74 mm) x .688 in. (17.48 mm). 1-piece molded body locks all internal parts in place. Mates with Switchcraft Micro-Plug phone plugs. PC terminals have standoff shoulders. Nos. MDL-2A & MDL-2A-RA have #10-48 threaded bushing; mounting washer & locknut supplied.

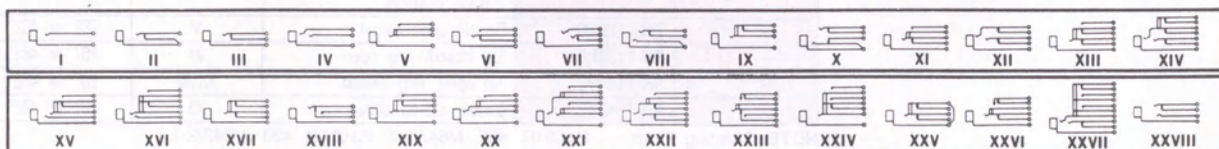
Part No.	Schematic No.	Typical Mating Plug	Cond.	Terminals	Mounting In. (mm)
MDL-2A	III	850, 851	2	Solder lug	Mounts thru .203 (5.16) hole, in panels up to .063 (1.6) thick. Singly or in rows on .350 (8.89) min. centers. Adjacent sleeves touch when mtd. on .315 (8.00) centers.
MDPC-2A	III	850, 851	2	PC	Mounts singly or in rows on .315 (8.00) min. centers or .350 (8.89) min. centers
MDL-2A-RA	III	850, 851	2	Solder lug	Same as Part No. MDL-2A except right angle solder lug terms. for min. space. Behind panel clearance .382 (9.70)
MDPC-2A-RA	III	850, 851	2	PC	Same as Part No. MDPC-2A except right angle PC terms. Above PC board clearance .345 (8.76)

"M-Jax" MILITARY TELEPHONE JACKS



Heavy, long frame 3-cond. jacks (often referred to as the Navy jacks). Ideal for industrial and military equipment. Heavy duty springs have fine silver contacts.

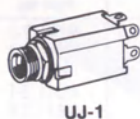
Part No.	Schematic No.	Adjusted for plug	MIL-Type No.	Mounting In. (mm)
M-443B	VII	482	JJ-106 M641/9-4	Mounts on single .375 (9.52) hole in panels up to .25 (6.35).
M-444B	XII	482	JJ-082 M641/9-3	
M-446A	XVI	482	JJ-081 M641/9-2	



For detailed data on above products, ask for Switchcraft Catalog J-104 and J-140.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Unijax" MINIATURE JACKS

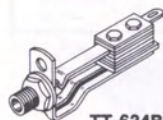


UJ-1

Miniature 2- and 3- cond. phone jacks mate with std. .173 in. (4.39 mm) dia. phone plugs. Molded "box" body protects with integral contacts. Silver plated springs. Low contact resistance; low electrical leakage and low capacity between springs. Mounts in .281 in. (7.14 mm) dia. hole in panels up to .125 in. (3.18 mm) thick on .469 in. (11.91 mm) centers. Behind panel depth: .875 in. (22.22 mm). U.S. Pat. No. 3,383,481.

Part No.	Cond.	Schematic No.	Typical Mating Plug
UJ-1	2	I	TT-251
UJ-2A	2	III	TT-251
UJ-2B	3	IV	TT-253
UJ-4B	3	XII	TT-253

"tini-telephone" MINIATURE JACKS WITH THREADED BUSHINGS

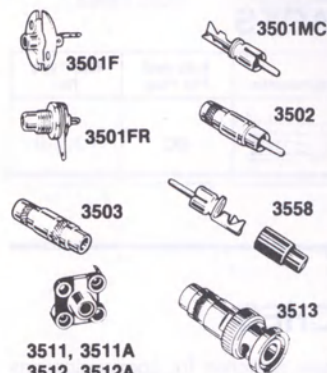


TT-634B

Miniature 3-cond. telephone jacks. Mates with std. .173 in. (4.39 mm) dia. phone plugs. Gusseted steel frame for extra rigidity and stability. Nickel-silver springs provide long life. Solder lugs are standard or wire-wrap terminals are available on special order.

Part No.	Schematic No.	Typical Mating Plug	Cond.	Contacts	Mounting In. (mm)
TT-632B	IV	TT-253	3	Welded Palladium	Mounts in .25 (6.35) hole, on .438 (11.13) centers, in panels up to .281 (7.14) thick, 2.188 (55.58) depth behind panel.
TT-634B	XII				

PHONO JACKS AND PLUGS



Low cost 2-cond. jacks and plugs for record players, FM-AM tuners, tape recorders, test equipment, etc. 3501MC has .375 in. (9.52 mm) O.D. shell and cable clamp. 3501FP for front panel mount in .25 in. (6.35 mm) hole in panels up to .125 in. (3.18 mm) thick. 3501FR for rear panel mount in .375 in. (9.52 mm) hole in panels up to .203 in. (5.16 mm) thick. 3502 has unique cable clamp with .406 in. (10.31 mm) O.D. shielded removable handle. 3503 extension jack has shielded removable handle .406 in. (10.31 mm) O.D. with cable clamp. **Series 3558** are phono plugs with cable clamp and "snap-on" color-coded plastic handles in red, black and white. **Series 3511**, 4 Leaf Clover Jax, molded phono Jack with dual contact surfaces for low shunt resistance. Open and closed circuit types. Mates with all Switchcraft phono plugs.

Part No.	Description
3501F	Phono jack
3501M	Plug, less cable clamp
3501MC	Plug with cable clamp
3501FP	—
3501FR	Phono jack
3502	Plug
3503	Extension Plug
3558-1	Plug, red handle
3558-2	Plug, black handle
3558-5	Plug, white handle
3511	Phono jack, open circuit
3511A	Phono jack, open circuit grounded
3512	Phono jack, closed circuit
3512A	Phono jack, closed circuit grounded
3513	Phono Jack-to-BNC Connector Adapter

"Power-Jax" POWER JACKS



712A



PC-722A

Designed for AC/DC power converter and/or battery charger connections for electronic equipment and appliances, such as cassette recorders/players, TV receivers, radios and hand-held miniature calculators. Silver plated sleeve shunt spring permits automatic switch-over from AC to DC (battery) operation when AC power plug is disconnected. Power jacks are 2-cond. type with shunted sleeve. Recessed center pin (712A) .100 in. (2.54 mm) dia.; (722A) .08 in. (2.03 mm) dia., split to hold mating plug firmly. Behind panel space: .609 in. (15.47 mm) max.

No. 712A mounts in .312 in. (7.92 mm) dia. hole in panels up to .125 in. (3.18 mm) thick max. Silver plated solder lug terminals standard.

No. PC-712A, PC terminals fit in .062 in. (1.57 mm) dia. holes. Terminal shoulders act as stand-off for stable mounting. Nos. 712A and PC-712A mate with "Power-Plug" plugs, Nos. 760 and 765.

Nos. 722A and PC-722A same as Nos. 712A and PC-712A except center pin is .080 in. (2.03 mm). 722A and PC-722A mate with Switchcraft "Power-Plug" plugs, Nos. S-760 and S-765.

Part No.	Mating Plug	Pin Dia., In. (mm)
712A	760, 765	.100 (2.54)
PC-712A		
722A	S-760, S-765	.080 (2.03)
PC-722A		

"Power-Plug" BATTERY CHARGER PLUGS



760

Battery charger plugs mate with sockets used on transistorized portable radios, tape recorders, appliances which have AC adapters, and/or battery chargers. Part Nos. 760, 765 are 2-cond. plugs with a sleeve of .218 in. (5.54 mm) O.D. x .375 in. (9.53 mm) long. An .062 in. (1.57 mm) wide insulator. Ring at tip of sleeve insulates and recesses a hollow pin conductor with a center hole of .100 in. (2.54 mm) I.D. Part Nos. S-760 and S-765 are the same except center hole is .080 in. (2.03 mm) I.D. Solder lugs.

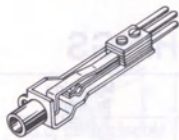
Part No.	Handle	Length & Dia. In. (mm)	Mating Jack
760	Black	1.42 (36.07) x .375 (9.52)	712A, PC712A
765	Red		
S-760	Black		722A, PC722A
S-765	Red		

For detailed data on above products, ask for Switchcraft Catalogs C-502, J-104 and P-202.

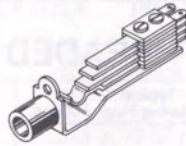
NOTE: Contact your Switchcraft Representative for price & delivery.

"MT-Jax" MILITARY TELEPHONE JACKS

Long frame 2- and 3- cond. jacks, commonly referred to as telephone switchboard jacks, designed for communication and military equipment. Springs are nickel silver alloy with welded cross bar palladium contacts. Available in "A" and "C" frame designs. Part numbers cover "A" frame design. For frame design "C" add prefix letter "C" for part numbers.



"MT-JAX"
("A" Frame)



"MT-JAX"
("C" Frame)

Part No.	Schematic No.	Cond.	Adjusted For Plug	MIL-Type No.	MIL Part No.
MT-331	I	2	440, 445, 470 ¹	JJ-086	M641/2-8
MT-332A	III	2	440, 445, 470 ¹	JJ-024	M641/2-3
MT-332B	IV	3	482, 483 ²	JJ-022	M641/3-1
MT-332C	XVIII	2	440, 445, 470 ¹	JJ-016	M641/2-1
MT-333	V	2	440, 445, 470 ¹	JJ-084	M641/2-4
MT-333B	VII	3	482, 483 ²	—	—
MT-334B	XII	3	482, 483 ²	JJ-042	M641/3-2
MT-334C	XVII	2	440, 445, 470 ¹	JJ-072	M641/2-5
MT-334E	XXV	2	440, 445, 470 ¹	JJ-085	M641/2-7
MT-335A	XXVI	2	440, 445, 470 ¹	JJ-017	M641/2-2
MT-336A	XIV	3	482, 483 ²	JJ-075	M641/3-5
MT-336B	XXI	3	482, 483 ²	JJ-077	M641/3-6
MT-336C	XXII	3	482, 483 ²	JJ-073	M641/3-3
MT-342B ⁴	IV	3	480 ³	—	—

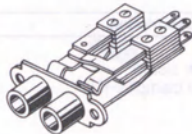
NOTE: ¹ Mating Plugs—PJ-055B, M642/4-1; PJ-055R, M642/4-2; PJ-055M, M642/4-3

² Mating Plugs—PJ-051B, M642/2-1; PJ-051R, M642/2-2

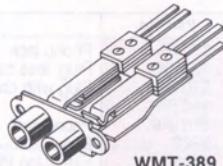
³ Mating Plugs—PJ-068, M642/5-1

⁴ Bushing, .210 in. (5.33 mm) I.D.

"Twin-Jax" TWIN MILITARY TELEPHONE JACKS



MT-389

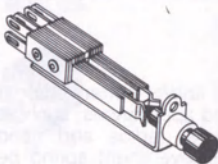


WMT-389

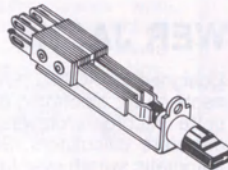
Similar to "MT-Jax" jacks, except frame is double width with two mounting ears on 1.375 in. (34.93 mm) centers. Bushings are on .625 in. (15.88 mm) centers. MT-389 has two 3-cond. jacks interconnected (with solder lugs). WMT-389 has wire-wrapping terminals.

Part No.	Schematic	Adjusted For Plug	MIL-Type No.
MT-389		482	PJ-051B
WMT-389			

SERIES 11000, 11200 — "T-Switch" SWITCHES



11000



11200

Momentary or locking long frame switches for communications equipment. Requires minimum of panel space. Series 11200 turn-button is faced with white arrow to indicate position of knob. Contacts: palladium, 2 A, 200 W max., AC, non-inductive load. Solder lugs; screw mtg.

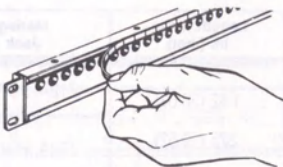
Switchcraft Part No. P-1072-5. Mounting screw.

Part Nos. ¹		Action	Switching	Schematic
Push Button	Turn Button			
Mounting, In. (mm) Hole—.448 (12.14) • Panel Thickness—up to .375 (9.52) Behind Panel Depth—2.875 (73.02) min.				
11003	11203	Momentary	SPDT	1-C
11006	11206		DPDT	2-C
—	11212		4PDT	4-C

NOTE: ¹ Add suffix L for locking switches.

"Kwik-Change" DESIGNATION STRIP KITS

"Kwik-Change" designation strip kits consists of clear plastic snap-on covers and re-usable plastic marking strips. Matte-finish permits in-the-field identification with ink, pencil, etc. Designation strip kits are available for retrofitting older style panels.



Part No.	Used on Jack Panel Series	Description
DS-301	1400-301, 2600-301	Kit (single height) incl: 1—Mounting strip 1—Cover 1—Marking strip sheet (5 strips/sheet) 4—Mounting screws
DS-302	—	Cover (used with Kit DS-301)
DS-311	2600-310, 1400-315	Kit (double height), incl: 1—Mounting strip 1—Cover 1—Marking strip sheet (5 strips/sheet) 4—Mounting screws
DS-312	—	Cover (used with Kit DS-311)

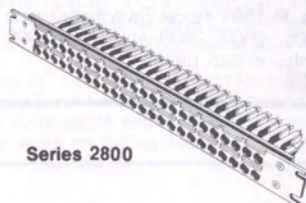
For detailed data on above products, ask for Switchcraft Catalog J-140.

NOTE: Contact your Switchcraft Representative for price & delivery.

JACK PANELS

Rugged, heavy duty jack panels for switching, distribution and control of audio signals in broadcasting stations, theaters, P.A. installations etc. Series 1200 has black phenolic panels reinforced with steel for rigidity. Slotted mounting brackets fit standard 19 in. (482.6 mm) relay racks. Panel includes plastic covered designation strips. U.S. Patent No. 3,597, 867. Canadian Patent No. 927,597 (June 5, 1975).

Series 2400



Series 2800

Part No.	Rows	Number of Jacks	Width	Size, In. (mm) Depth	Height
1200	Single	24 ¹	19	1.25	1.75
1332A		24 MT-332A	(482.6)	(31.75)	(44.45)
1400		26 ¹	19	.625	1.75
			(482.6)	(15.88)	(44.45)
1400-301 ³	Double	26 ¹	19	.625	1.75
			(482.6)	(15.88)	(44.45)
2400		48 ²	19	1.25	2.125
2532A		48 MT-332A	(482.6)	(31.75)	(53.98)
2600		52 ¹			
2600-301 ³		52 ¹	19	.265	1.75
X2632A			(482.6)	(15.88)	(44.45)
2732A ²		52 MT-332A			

NOTE: ¹ Jacks not supplied, except on special order.

² Recommended plugs are Switchcraft Nos. 420 or 425.

³ Supplied with "Kwik-Change" designation strips.

⁴ Offset ground legs on jacks.

SERIES JP MODULAR JACK PANELS

Twin-row modular jack panels feature. Insert assemblies (up to 4 jacks) installed from rear and fastened from front making mounting and wiring quick and easy. Individual jacks or assemblies can be removed with minimum disturbance to adjacent jacks and wiring. Accepts all Switchcraft and other standard telephone jack panel components (including WECO types), jacks, lamp jacks, switches and coaxial jacks. Panels are lightweight, black-anodized aluminum; inserts are molded black plastic. Three mounting styles available: rack, extension, or flush mount. Two "Kwik-Change" designation strips supplied. Machine screws: Jack mtg: Switchcraft Part No. P-1072-5 (#6-32 x 5/8" PHMS). Module Insert Mtg.: Switchcraft Part No. P-2435 (#4-40 x 1/2" PHMS). Bracket mtg. screws: Switchcraft Part No. P-2932 (#6-32, self-tapping).

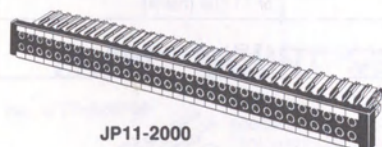
Series JP01-2000 thru JP06-2000. Double row panels: insert openings on .625 in. (15.88 mm) centers in quads; .75 in. (19.05 mm) between openings in adjacent quads.

Series JP07-2000 thru JP12-2000: Double row with openings on continuous .625 in. (15.88 mm) centers.

JP01-2000



JP03-2000
JP04-2000
JP07-2000



JP11-2000

Part No.	Number of Jacks	Width	Size, In. (mm) Depth	Height
JP01-2000	48 ²	19 (482.6)	.75 ¹ (19.05)	1.75 (44.45)
JP01-2S32A	48, MT-332A	19 (482.6)	x	1.75 (44.45)
JP01-2S32B	48, MT-332B			
JP01-2S34B	48, MT-334B			
JP03-2000 ³	48 ²	19 (482.6)	5.5 (139.7)	1.75 (44.45)
JP04-2000 ³	56 ²	23 (584.2)	5.5 (139.7)	1.75 (44.45)
JP07-2000 ⁴	52 ²	19 (482.6)	.75 ¹ (19.05)	1.75 (44.45)
JP07-2S32A	52, MT-332A	19 (482.6)	3.640 (42.46)	1.75 (44.45)
JP08-2000 ⁵	64 ²	23 (584.2)	.75 ¹ (19.05)	1.75 (44.45)
JP11-2000	52 ²	19 (482.6)	.781 ¹ (19.84)	1.75 (44.45)

NOTE: ¹ Panel depth, not including jacks.

² Jacks not supplied.

³ Supplied with 5.375 in. (136.52 mm) lg. stand-off legs.

⁴ Non-modular equiv: WECO 230A.

⁵ Non-modular equiv: WECO 231A.

For detailed data on above products, ask for Switchcraft Catalog J-140.

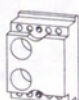
NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES JP9900 — MODULE INSERTS

Plastic inserts used in Jack Panels JP01-2000 thru JP12-2000.



JP9942



JP9922



JP9902

Part No.	Description
JP9942	Black, 4 openings (less jacks), incl: 2, #4-40 FHM screws (Switchcraft Part No. P-2435-8)
JP9922	Black, 2 openings (less jacks), incl: 2, #4-40 FHM screws (Switchcraft Part No. P-2435-8)
JP9902	Black, without holes, incl: 2, #4-40 FHM screws (Switchcraft Part No. P-2435-8)

JACK PANEL ACCESSORIES FOR STANDARD JACK PANELS



No. P-1801

Molded nylon **Hole Plug No. P-1801** fits all Switchcraft jack panels, Series 1200, 1400, 2400, 2600, 2800 and JP01-2000 thru JP12-2000. Plugs unused holes in jack panels.

Switchcraft Part No. P-1801



Series 2300

SERIES 2300 JACK BLOCKS

Molded black phenolic jack blocks for mounting "MT-Jax" and "T-Jax" long frame phone jacks on .625 in. (15.88 mm) centers. Can be jack panel mounted individually or in multiples. Mount with four No. 8-32 flat head screws.

Part No.	Description	Size, in. (mm)		
		Width	Depth	Height
2300	Jack block, less jacks			
2331	Two, MT-331 Jax ¹	2.375	.625	1.25
2332A	Two, MT-332A Jax ¹	(60.32)	(15.88)	(31.75)
2332B	Two, MT-332B Jax ¹			

NOTE: ¹ Jacks installed.

SERIES TT "tini-telephone" JACK PANELS

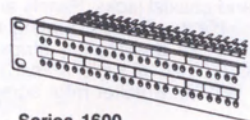
Panels provide up to 104 jacks in area 1.75 in. (44.45 mm) x 19 in. (482.6 mm) or 156 jacks in area 2.625 in. (66.68 mm) x 19 in. (482.6 mm) in standard panels. Black anodized, extruded aluminum construction with extra wide flange for rigidity.

Series 1600 double row panel: 96 "TT-Jax" jacks, aluminum panel & four, molded plastic inserts (24 jacks each).

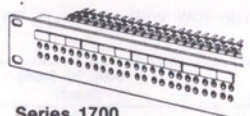
Series 1700 double row panel: 48 "TT-Twin-Jax" jacks, aluminum panel & two molded plastic inserts (24 twin jacks each).

Series B1700: Similar to Series 1700 exc. mounts 48 "Tri-Jax" jacks on two inserts.

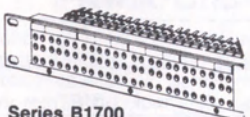
All series have "Kwik-Change" designation strips consisting of clear plastic snap-on cover & reusable plastic marking strip. U.S. Pat. No. 3,597,867.



Series 1600



Series 1700



Series B1700

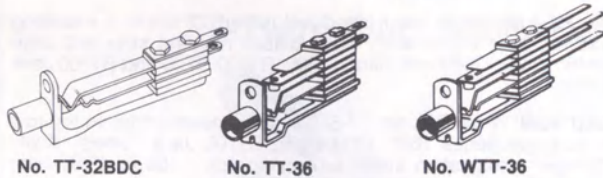
Part No.	Number of Jacks	Panel Inserts
1600	96 ¹ , single	TT-505 (24 holes) (24 Jacks) or TT-506 (blank)
1632A	96, TT-32A	
1634B	96, TT-34B	
1700	48 ¹ , twin	TT-507 (48 holes) (24 Jacks) or TT-508 (blank)
1789	48, TT-89	
B1700	48 ¹ , "Tri-Jax"	TT-511 (72 holes) (24 Jacks)
B1795	48, TT-95 "Tri-Jax"	

NOTE: ¹Supplied less jacks.

For detailed data on above products, ask for Switchcraft Catalog J-140.

NOTE: Contact your Switchcraft Representative for price & delivery.

SERIES TT-30 AND WTT-30 TT-Jax PHONE JACKS



"tini-telephone" jacks, miniatures of the std. long frame telephone type jacks, have rugged steel frame with gusset for extra rigidity. Special nickel-silver alloy springs and welded cross bar palladium contacts.

Series TT-30 requires only 2.187 in. (55.55 mm) depth behind panel. Mounts on .312 in. (7.92 mm) centers in .25 in. (6.35 mm) dia. holes, in panels up to .375 in. (9.52 mm) thick. For mounting on Series 1600, A1600, B1600, and C1600 panels. Series TT-30 jacks also available with wire-wrap terminals.

Series WTT-30. Wire-wrapping terminals. Depth behind panel 2.688 in. (68.28 mm). Both TT-30 jacks can be mounted in combination or interchangeable with "TT-Switch" switches and "TT Lamp-Jax" lamp jacks on Series 1600, A1600, B1600, and C1600 panels.

SERIES TT-30

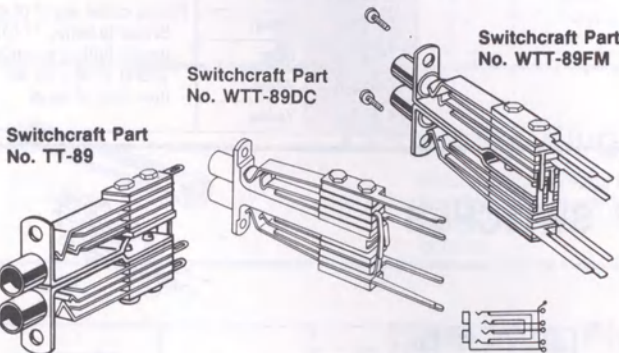
Part No.	Schematic No.	Cond.	Typical Mating Plug
TT-31	I	2	TT-251, TT-252
TT-32A	III		
TT-32B	IV	3	TT-253, TT-254
TT-33B	VII		
TT-34B	XII		
TT-36C	XXII		

SERIES WTT-30

WTT-32A	III	2	TT-251, TT-252
WTT-32B	IV	3	TT-253, TT-254
WTT-34B	XII		

SPECIFYING NOTE: Jacks also available with die cast frames ("DC" suffix added to part no.). Jacks with steel frames (listed in table) are completely interchangeable with jacks having die cast frames. Jacks with steel or die cast frames may be supplied at manufacturer's option.

"tini-telephone" "Twin Jax" TWIN JACKS



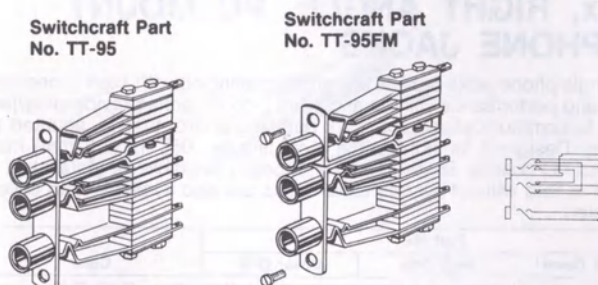
NOTE: See SPECIFYING NOTE with Series TT-30 and WTT-30.

Twin jacks are similar in design to "TT-Jax" and "WTT-Jax" single jacks, except 2 frames are welded back-to-back with mtg. holes on .812 in. (20.62 mm) centers and bushings on .312 in. (7.92 mm) centers. Twin jacks are to be mounted on Series 1700 jack panels. Part No. TT-89 has solder lugs. Part No. WTT-89 has wire-wrapping terminals. Both mate with TT-Patch Cords Series TT-120, TT-160, TT-740, and TT-860.

Nos. TT-89FM & WTT-89FM "TT-Twin Jax" Jack mount on modules used with modular "tini-telephone" jack panels, Series TT-59, TT-60, TT-61, and TT-62 with the exception of the front mount are similar to above. Mounting screws furnished with front mount jacks only.

Switchcraft Part No. TT-89
Switchcraft Part No. WTT-89
Switchcraft Part No. WTT-89FM
Switchcraft Part No. P-1083-4 (TT-Jax Mounting Screw)
Switchcraft Part No. P-2542-4 (TT Front Mount Mounting Screw)

"tini-telephone" "Tri-Jax" PHONE JACKS

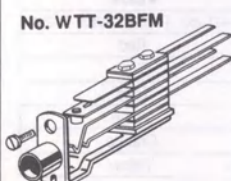


NOTE: See SPECIFYING NOTE with Series TT-30 and WTT-30.

Miniature triple "telephone type" phone jacks are used on Series B1700 jack panels for high density voice frequency interconnecting applications. Front-mount series "TT Tri-Jax" phone jacks are mounted on modules used with modular jack panels, Series TT-53, TT-54, TT-57 and TT-58. "Tri-Jax" phone jacks are used extensively for LINE, EQUIP, and MONITOR jack panel connections. Consists of 3 miniature 3-cond. jacks on a single frame. Mounts with 2 machine screws. Two jacks on .312 in. (7.92 mm) centers (LINE and EQUIP functions); third jack is unwired. All three jacks mate with TT Series Phone Plugs and other phone plugs with similar sleeve dia. and compatible tip shape. Upper pair of jacks also mate with TT-Twin plugs. Jacks may have solder on wire wrapping terminals.

Switchcraft Part No. TT-95
Switchcraft Part No. TT-95FM
Switchcraft Part No. P-1083-4 (TT-Jax Mounting Screw)
Switchcraft Part No. P-2542-4 (TT Front Mount Mounting Screw)

FRONT MOUNT SERIES "TT-Jax" MINIATURE TELEPHONE JACKS



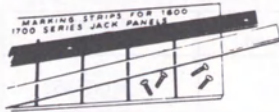
Front series "TT-Jax", miniature telephone jacks designed specifically for front mtg. on inserts used with modular "tini-telephone" Jack Panels, Series TT-51, TT-52, TT-55 and TT-56. Require only 2.187 in. (55.55 mm) behind panel space (solder lugs) or 2.688 in. (68.28 mm) behind panel space (wire-wrapping). #3-48 hole in frame accepts Switchcraft Part No. P-2542-4 mtg. screw (supplied with each jack). TT-Jax jacks mate with Switchcraft TT-Plugs and other phone plugs with similar sleeve dia. and compatible tip shape.

Part No.	Cond.	Schematic No.	Terminals	Typical Mating Plug
TT-32BFM	3	IV	Solder lug	TT-253 TT-254
TT-36CFM		XXII	Solder lug	
WTT-34BFM		XII	Wire-wrapping	

For detailed data on above products, ask for Switchcraft Catalog J-140.

NOTE: Contact your Switchcraft Representative for price & delivery.

"tini-telephone" ACCESSORIES



No. TT-501



No. TT-510

No. TT-501 "Kwik-Change" Designation Strip kits for TT-Jack Panels consist of an extruded aluminum mounting strip, 4 screws, sheet of 5 marking strips & a clear plastic designation strip cover. Used on Series 1600, B1600, 1700 and B1700.

No. TT-516 Double Height Designation Strip Kit for marking larger legends and easier, quicker ident. of functions on Series 1600, B1600, 1700 and B1700 "tini-telephone" Jack Panels. Incl.:

extruded aluminum black anodized mounting strips, 4 mounting screws, three matte finish white plastic marking strip and clear plastic cover. Used with Series 1600, B1600, 1700 and B1700 Jack Panels

CAUTION: When Part No. TT-516 kits are mounted above top row of jacks on Series 1600, B1600 and B1700 Jack Panels "Kwik-Change" designation strips project approx., .156 in. (3.96 mm) above edge of panel. Pat No. 3,597,867.

- No. TT-501** — Designation Strip Kit, complete.
- No. TT-503** — Plastic Cover (single height)
- No. TT-510** "TT" Hole Plug closes off unused holes in TT-Jack Panels — black plastic with brass sleeve.
- No. TT-516** — Designation Strip Kit, complete.
- No. TT-518** — Plastic Cover (double height)

"tini-telephone" SIGNAL PLUGS

Seals jack bushing openings & eliminates accidental plug insertion into critical circuits.



TT-512



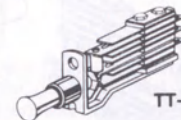
TT-513

Part No.	Color	Description
TT-512-1	Red	Critical Circuit plugs fit flush against jack bushing
TT-512-2	Black	
TT-512-5	White	
TT-513-1	Red	Priority circuit signal plugs. Similar to Series TT-512, except bottom extends .219 in. (5.56 mm) out from front of panel.
TT-513-3	Green	
TT-513-4	Blue	
TT-513-5	White	
TT-513-8	Yellow	

"TT-Switch" SWITCHES

Series TT-300 switches are small and compact and designed to be mounted in combination or interchangeable with "TT-Jax," "TT-Lamp Jax" jacks on Series 1600, A1600, B1600 and C1600 jack panels. White plastic knobs. Special nickel silver springs with welded cross bar palladium contacts rated at 2 A, 200 W, non-inductive load. Mounts with No. 3-48 screw (not furnished) in .25 in. (6.35 mm) dia. hole in panels up to .375 in. (9.52 mm) thick. Depth behind panel 2.187 in. (55.55 mm).

Switchcraft Part No. P-1083-4 (#3-48 PHM Screw.)



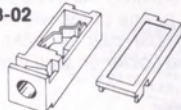
TT-300

Part No.		Action	Schematic No. (See Chart)
Non-Locking	Push-Lock/Pull-Release		
TT-301	TT-301L	SPST (NO)	1-A
TT-306	TT-306L	DPDT	2-C
TT-307	TT-307L	3PST (NO)	3-A

SERIES RTT-34 & RTT-87 TT-Jax, RIGHT ANGLE, PC MOUNT MINIATURE TELEPHONE JACKS

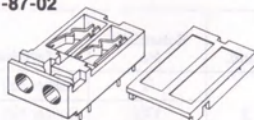
Right angle phone jacks provide low profile packaging with high connecting quality and performance. Single and twin, 3-cond. jacks provide plug/jack access to communication circuits for patching and/or testing, shunted tip and ring. Designed for right angle mounting on .062 in. (1.6 mm) max. thickness PC boards. Snap-on covers in colors available for installation or removal in field without special tools. Jacks are also available with covers assembled.

No. RTT-34B-02



No. P-2863-02

No. RTT-87-02



No. P-2864-02

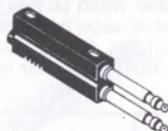
Part No.			Color
Jack & Cover ¹	Jack Only	Cover Only	
No. of Jacks—Single • Jack Schematic—XII • Typical Mating Plugs—TT-253, TT-254			
RTTC-34B-01	RTT-34B-01	P2863-01	Red
RTTC-34B-02	RTT-34B-02	P2863-02	Black
RTTC-34B-04	RTT-34B-04	P2863-04	Blue
RTTC-34B-05	RTT-34B-05	P2863-05	White
RTTC-34B-07	RTT-34B-07	P2863-07	Orange
RTTC-34B-08	RTT-34B-08	P2863-08	Yellow
No. of Jacks—Dual • Jack Schematic—2 (XII) • Typical Mating Plugs—TT-253, TT-254, TT-263, TT-264			
RTTC-87-01	RTT-87-01	P2864-01	Red
RTTC-87-02	RTT-87-02	P2864-02	Black
RTTC-87-04	RTT-87-04	P2864-04	Blue
RTTC-87-05	RTT-87-05	P2864-05	White
RTTC-87-07	RTT-87-07	P2864-07	Orange
RTTC-87-08	RTT-87-08	P2864-08	Yellow

NOTE: ¹ Assembled with cover.

For detailed data on above products, ask for Switchcraft Catalogs 361 and J-140.

NOTE: Contact your Switchcraft Representative for price & delivery.

TT-Twin Plug MINIATURE TELEPHONE TWIN PLUGS



Series TT-260 twin phone plugs are the only plugs available which fit jacks on .312 in. (7.92 mm) centers, both horizontally and vertically in dense arrays. Part No. TT-263 is a twin, 3-cond. plug. Handle is easily installed and removed; handle dim.: .312 in. (7.92 mm) w. x .625 in. (15.88 mm) h. x 1.75 in. (44.45 mm) long (max.).

Handle polarizing notches locate finger positions, and .173 in. (4.39 mm) dia. plug fingers are self-aligning. Access ports in handle permit probe insertion for tip circuit monitoring. Mates with "TT Twin-Jax" and TT-Jax jacks spaced on .312 in. (7.92 mm) centers. Tip and ring terminals are screw type; shield bridging feature permits common sleeve connections with cable shield. Cable dia. for each plug finger must fit #12-24 UNC-2B thread. U.S. Pat. No. 3,794,961.

Part No.	Description	Schematic
TT-263	Six-circuit, two, electrically independent, 3-cond. plugs in one black handle.	

TT-PHONE PLUGS



TT-251



TT-253

Part No.	Cond.	Handle
TT-251	2	Black
TT-253	3	Black
TT-254	3	Red

Series TT-250 miniaturized 2- and 3-cond. phone plugs, .173 in. (4.39 mm) dia. plug finger, fits all "tini-telephone" jacks (Series TT-30, WTT-30, TT-600 and Part Nos. TT-89, WTT-89, TT-95, & WTT-95). Also mates with "Unijax" jacks. Series TT-250 plugs are used on Series TT-720 and TT-740 patch cords. Handles twist-on and twist off. Each handle includes a special boss which mates with a groove in plug body. A 30° clockwise twist locks handle on plug body. Knurled area of handle should be squeezed lightly to unlock. To remove — slide handle forward. Plastic handle 1.5 in. (38.10 mm) lg. x .312 in. (7.92 mm) dia. U.S. Pat. No. 3,656,089 Canadian Pat. No. 929,627 (July 3, 1973).

TT-Dummy Plug PHONE PLUGS



Plastic dummy plugs (in colors) are inserted into phone jacks to actuate shunt and isolated switching circuits.

Part No.	Description
TT-515-1	Red, used on 2- and 3-cond. TT-Jax jacks.
TT-515-2	Same as No. TT-515-1, exc. black.
TT-515-5	Same as No. TT-515-1, exc. white.

Littel-Plug PHONE PLUGS

Phone plugs fit std. .25 in. (6.35 mm) phone jacks. Solder terminal plugs have built-in cable clamp. Shielded metal handles are nickel-plated brass or durable molded plastic: 1.688 in. (42.88 mm) long x .5 in. (12.7 mm) dia. Max. cable dia.: 2.97 in. (7.54 mm).



No. 250



No. 280

TWO CONDUCTOR

Part No.	Description	Typical Mating Littel-Jax Jacks
240	Screw terminals, black handle.	11
C-240	Screw terminals with integral cord clamp, black handle.	11
245	Screw terminals, red handle.	11
C-245	Same as C-240 except red handle.	11
250	Solder lugs, black handle.	11
255	Solder lugs, red handle.	11
270	Screw terminals, shielded handle.	11
C-270	Same as C-240 except shielded handle.	11
280	Solder lugs, shielded handle.	11
288	Special shielded type. Wide insulator between tip-sleeve; use in 3-cond. jack to perform a 2-cond. function without shorting.	11
S-250	Solder lugs, black handle, .206 in. (5.23 mm) dia. sleeve and tip.	S-11
S-280	Same as S-250 except shielded handle.	S-11

THREE CONDUCTOR

260	Screw terminals, black handle.	12B
S-260	Screw terminals, black handle, .206 in. (5.23 mm) dia. sleeve & tip.	S-12B
267	Combination cable clamp & solder lugs, black handle.	12B
269	Same as 267 except red handle.	12B
290	Screw terminals, shielded handle.	12B
297	Same as 267 except shielded handle.	12B

For detailed data on above products, ask for Switchcraft Catalog J-140 and P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

"Silent-Plug" PHONE PLUGS



Nos. 172 & 181



Nos. 169 & 182

2-cond. plugs feature a circuit closing device that automatically shorts tip and sleeve together when plug is disconnected. Eliminates hum pickup, pops and squeals from amplifier. For high quality and professional applications. Mates with .25 in. (6.35 mm). Littell-Jax jacks Nos. 181 & 182 have mylar tube handle insert for max. insulation.

Part No.	Handle	Terminals	Handle Length & Dia., in. (mm)	Max. Cable Dia. in. (mm)
169	Shielded	Screw	1 (25.4) x .688 (17.48)	.28 (7.11)
172			2 (50.8) x .688 (17.48)	.25 (6.15)
181		Solder Lugs	2 (50.8) x .688 (17.48)	.25 (6.15)
182			2.06 (52.4) x .688 (17.48)	.37 (9.40)

TWO-CONDUCTOR PHONE PLUGS - SCREW & SOLDER LUG TERMINALS

Nos. 40, 45, 185, 186



Nos. 70, 184



No. 160



Nos. 170, 183

Popular plug fits all standard jacks. Nos. 183 & 184 have mylar handle insert for insulation. Typical mating jack: Littell-Jax No. 11.

Part No. ²	Part No. ¹	Handle	Max. Cable Dia., in. (mm)
40	185	Black Handle	.28 (7.11)
45	186	Red Plastic	
70	184	Shielded	.38 (9.65)
160	—		.28 (7.11)
170 ³	183 ³		.25 (6.35)

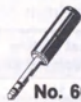
NOTE: ¹ Solder Lugs.

² Screw Terminals.

³ 2-piece handle with built-in cable clamp & cable relief bushing for .25 in. (6.35 mm) cable.

THREE-CONDUCTOR PHONE PLUGS - SOLDER TERMINALS

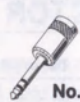
No. 190A has 2-piece handle with built-in cable for .25 in. (6.35 mm) cable. Typical mating jack No. 12B.



No. 60



No. 190

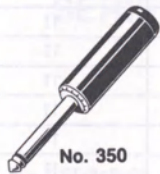


No. 90



No. 190A

Part No.	Handle	Handle Length & Dia., in. (mm)	Max. Cable Dia., in. (mm)
60	Black	2.06 (52.4) x .750 (19.05)	.28 (7.11)
90		1 (25.4) x .688 (17.48)	
190	Shielded	2.06 (52.4) x .688 (17.48)	.38 (9.65)
190A		2 (50.8) x .688 (17.48)	.25 (6.35)



No. 350

"Lug-Plug" PHONE PLUGS

Low cost, 2-cond. phone plugs. Fits all .25 in. (6.35 mm) phone jacks. Handle: shielded metal or plastic solder lugs. Max. cable dia.: .297 in. (7.54 mm).

Part No.	Handle	Typical Mating Littell-Jax Jacks	Length & Dia., in. (mm)
350	Black	11	1.625 (41.28) x .5 (12.7)
380	Shielded	11	1 (25.4) x .5 (12.7)

"Flat-Plug" PHONE PLUGS

.25 in. (6.35 mm) phone plugs have flat, space-saving handles. For applications where conventional plugs would protrude. Allows cables to be brought out at right angles to equipment.



No. 220



No. 228

Part No.	Cond.	Handle	Terminals	Typical Mating Jack	Max. Cable Dia. in. (mm)
220 ¹	2	Black	Screw	11	.281 (7.14)
225 ¹	2	Red	Screw	11	
227	2	Black	Solder	11	
228 ²	2	Shielded	Solder	11	.210 (5.33) to .25 (6.35)
229	2	Red	Solder	11	.281 (7.14)
230	3	Black	Screw	12B	
S-230 ³	3	Black	Screw	S-12B	
235	3	Red	Screw	12B	
237	3	Black	Solder	12B	
238 ²	3	Shielded	Solder	12B	.210 (5.33) to .25 (6.35)
239	3	Red	Solder	12B	.281 (7.14)

NOTES: ¹ With adapter clips. For convenience in clamping std. phone tips to terminals.

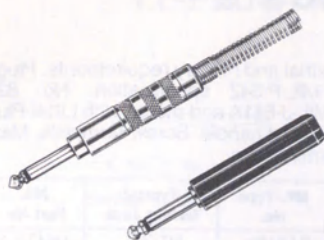
² Nickel-plated steel handles.

³ Sleeve dia.: .206 in. (5.23 mm)

For detailed data on above products, ask for Switchcraft Catalog P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

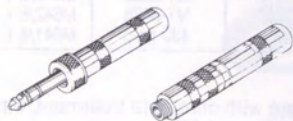
"Miti-Plug" AUDIO PLUGS



2-cond. phone plug with full shielding and resistance to extremely rough usage for electrified audio instruments, such as amplifiers, synthesizers, power heads, speaker systems, etc. requiring high quality audio plugs. Large cable clamps, cable flex relief spring, choice of handles. Typical mating jack: Switchcraft No. 11 Littell-Jax.

Part No.	Handle	Flex Relief
174S	Brass	Spring
175	Brass	None
176S	Black plastic	Spring
177S	Red plastic	Spring
178	Black plastic	None
179	Red plastic	None

"Lock-Plug" PLUGS & "Lock-Extension Jax" CABLE EXTENSION JACKS



Std. .25 in. (6.35 mm) 3-cond. phone plug and mating cable extension jack with built-in locking device. Ideal for P.A. audio applications. Plug has coupling ring that is threaded to bushing of Littell-Jax jack or mating end of a "Lock-Extension Jax" jack.

Part No.	Description	Dimensions, in. (mm)
298	"Lock-Plug" plug.	3 (76.20) L; .5 (12.7) dia.
133	"Lock-Extension Jax" jack.	.5 (12.7) dia.; 2.5 (63.5) L

"Dummy-Plug" PLUGS



No. 491-01



Nos. 492-02, 492-05



Nos. 493-01, 493-02

2- and 3-cond. molded plastic dummy plugs for switchboards, jack panels. Inserts in jack, like a phone plug, to switch circuits, but cannot couple incoming signals. Used also to plug up unused phone jacks to prevent accidental insertion of a phone plug.

Part No.	Cond.	Handle	Finger Dia. in. (mm)	Typical Mating Jack
491-01	3	Red	.207 (5.26)	MT-342B
492-02		Black	.250 (6.35)	MT-332B
492-05		White		
493-01	2	Red	.250 (6.35)	MT-331
493-02		Black		

Tini-Plug MINIATURE PHONE PLUGS



2-cond. phone plugs for use with Tini-Jax jacks. 1/3 size of std. phone plugs. Overall length 1.609 in. (40.87 mm). Handles: plastic or nickel-plated brass. Max. cable dia.: .218 in. (5.54 mm).

Part No. ¹	Part No. ²	Handle
740	750	Black
745	755	Red
770	780	Shielded

NOTES: ¹ Screw terminals. ² Solder terminals.

Micro-Plug SUBMINIATURE PHONE PLUGS



Subminiature 2-cond. phone plugs, only 1.106 in. (25.81 mm) long; .25 in. (6.35 mm) O.D., .097 in. (2.46 mm) dia. sleeve. Screw-on anodized aluminum handles. Accommodates cables up to .125 in. (3.18 mm) dia. Integral cable clamps mates with Switchcraft TR-2A and MDSL-2A.

Part No.	Description
850	Black Handle
855	Red Handle
880	Natural Handle

LOCK Micro-Plug SUBMINIATURE PHONE PLUGS



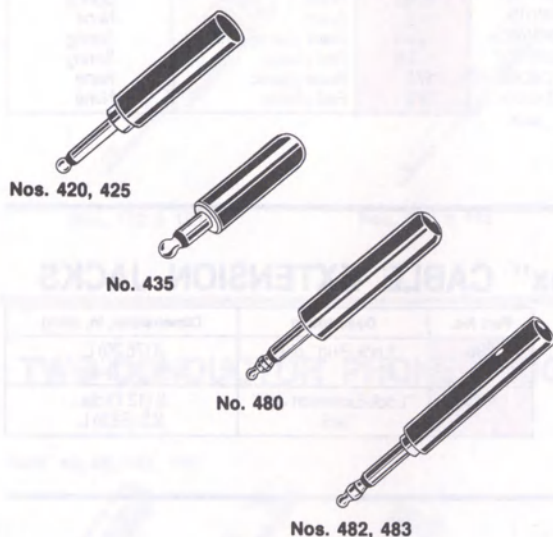
Only 1.016 in. (25.81 mm) long; .25 in. (6.35 mm) O.D., .097 in. (2.46 mm) dia. sleeve. Integral threaded coupling collar engages threaded bushing of mating jack for secure connection. Mates with Switchcraft MDSL-2A and TR-2A. Screw-on anodized aluminum handles. Accommodates cables up to .125 in. (3.18 mm). Integral cable clamps.

Part No.	Description
851	Black Handle
856	Red Handle
881	Natural Handle

For detailed data on above products, ask for Switchcraft Catalog J-140 and P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

MILITARY TYPE Littel-Plug PHONE PLUGS & "Extension-Jax" PHONE JACKS



Designed to meet exact industrial and military requirements. Plugs are in accordance with MIL-P-642 specification. No. 820 "Extension-Jax" jack meets MIL-J-641A and mates with Littel-Plug plug No. 430. No. 470 has shielded handle. Screw terminals. Max. cable diameters vary with terminations.

Part No.	Handle Color	Cond.	MIL-Type No.	Typical Mating Jack	MIL Part No.
420	Black	2	PJ-047B	MT-388	M642/1-1
425	Red	2	PJ-047R	MT-388	M642/1-2
430	Black	2	PJ-054B	820	M642/3-1
440	Black	2	PJ-055B	MT-331	M642/4-1
445	Red	2	PJ-055R	MT-331	M642/4-2
470	Shielded	2	PJ-055M	MT-331	M642/4-3
480	Black	3	PJ-068	MT-342B	M642/5-1
482	Red	3	PJ-051R	MT-332B	M642/2-2
483	Black	3	PJ-051B	MT-332B	M642/2-1
484	Red	3	PJ-309	MT-342B	M642/8-1
820	Black	2	JJ-026	430 plug	M641/4-1

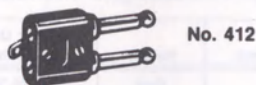
Switchcraft No. P-2380

Strain Relief Clamp. Cadmium plate with chromate treatment. Fits 430, 435, 440, 445 and 450 plugs. Pkg. of 100.

Switchcraft No. P-2381

Strain Relief Clamp. Cadmium plate with chromate treatment. Fits 480 plug and 820 extension jack. Pkg. of 100.

MILITARY TYPE "Twin-Plug" PHONE PLUGS



Meets exact industrial and military requirements. No. 411 is manufactured in accordance with MIL-P-642 specs. Nos. 412 and 413 use identical materials. "Twin-Plug" plug sleeves spaced .625 in. (15.88 mm) center-to-center with self-aligning feature. Plug fingers are .25 in. (6.35 mm) dia., except as noted.

Part No. 411—Two, electrically-independent 2-cond. plugs in black plastic handle. Provision for Cord Clamp No. S-2674. Military Type PJ-327 (Old Navy No. 491242). Similar to WECO 327. Max. cable dia.: .312 in. (7.92 mm).

Part No. 412—Two electrically-independent 2-cond. plugs in

black plastic handle. External cord clamp. Old Military Type PJ-289. Similar to WECO 289B. Max. cable dia.: .281 in. (7.14 mm).

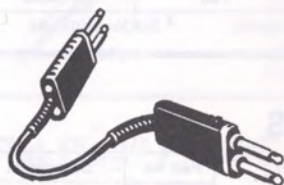
Part No. 413—3-circuit plug with two, electrically-independent tip circuits in die cast frame. Molded black phenolic handle notched to indicate polarity. Interchangeable with MIL-Type PJ-1 and WECO 241A. Max. cable dia.: .281 in. (7.14 mm).

Part No. 414—6-circuit plug. Two, electrically-independent 3-cond. .25 in. (6.35 mm) dia. fingers. Black polarized handle. Similar to WE-338A. Max. cable dia.: .312 in. (7.92 mm).

Part No. 415—6-circuit plug. Two, electrically-independent 3-cond. fingers. One .25 in. (6.35 mm) dia. finger, one .206 in. (5.23 mm) dia. for polarization. Black handle. Max. cable dia.: .312 in. (7.92 mm).

Part No. S-2674—Strain relief clamp, natural brass. Used with Nos. 411, 414, 415 "Twin-Plug" plugs. Max cable dia.: .281 in. (7.14 mm).

PATCH CORD SETS



Constructed of bronze tinsel conductors, insulated and shielded with black nylon braid overall. **Series 17Q**—2-cond. (tip/sleeve) twin patch cords have No. 413 phone plug at each end with grounded shields (both ends).

Series 18Q—3-cond. shielded (TRS) patch cords use Military Plug PJ-051R (Switchcraft Part No. 482) at each end with grounded shields (both ends).

Series 19Q—2-cond. (TS) patch cords use Military plug PJ-047B. (Switchcraft No. 420) connected to each end with shield grounded (both ends).

Part No.	Length, ft. (m)	Plugs Used
17QD17	2 (.610)	413
18QA18	.5 (.152)	
18QB18	1 (.305)	
18QD18	2 (.610)	
18QF18	3 (.914)	
18QH18	4 (1.219)	
18QK18	6 (1.829)	
18QN18	10 (3.048)	
19QD19	2 (.610)	
19QF19	3 (.914)	
19QH19	4 (1.219)	
19QK19	6 (1.829)	

REPLACEMENT PATCH CORDS

Made of bronze tinsel conductors, insulated and shielded, with black nylon braid overall. **Series 89Q**—2-cond. shielded cord; shield term. at both ends.

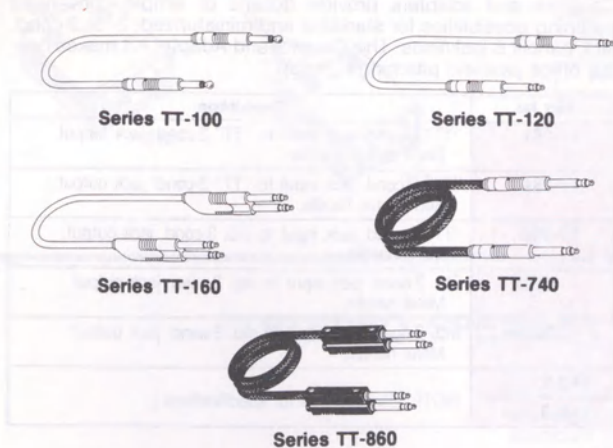
Part No.	Length ft. (m)	Plugs Used
89QD89	2 (.610)	420 ¹ , 482, MIL. Nos.,
89QF89	3 (.914)	PJ-047, PJ-051
89QK89	6 (1.829)	

NOTE: ¹ When used with No. 420 plug, clip off unnecessary lead.

For detailed data on above products, ask for Switchcraft Catalog P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

TT-PLUG MINIATURE TELEPHONE PATCH CORDS AND "TT" Twin Plug PATCH CORDS



TT-Patch Cord cords mate with "Unijax" jacks; "TT-Jax" jacks, Series TT-30, WTT-30, TT-600; Nos. TT-89 & WTT-89 "TT Twin-Jax" jacks; & Nos. TT-95 & WTT-95 "Tri-Jax" jacks. TT-Patch Cord cords with twin plugs mate with "TT Twin-Jax" jacks and single "TT-Jax" jacks spaced on .312 in. (7.92 mm) centers.

Patch cords are available in 2 styles:

- 2-cond. and 3-cond. single and twin plugs, molded on a shielded, grey plastic jacketed cable.
- 2-cond. and 3-cond. attachable single and twin plugs with a shielded, black woven nylon jacketed patch cord.

Part No.	Length, ft. (m)	Cond.	Description
TT-102	1 (.305)	2	Single cond. shielded cable with 2-cond. phone plug molded at each end. (Single plugs)
TT-104	2 (.610)		
TT-108	5 (1.524)		
TT-121	0.5 (.152)	3	2-cond. shielded cable with 3-cond. phone plugs molded at each end. (Single plugs)
TT-122	1 (.305)		
TT-124	2 (.610)		
TT-126	3 (.914)		
TT-127	4 (1.219)		
TT-128	5 (1.524)	5	4-cond. shielded cable with 5-cond. twin plug molded (each end). Sleeve circuits common. Tip circuits wired tip-to-tip; ring circuits, ring-to-ring. (Twin plug)
TT-164	2 (.610)		
TT-166	3 (.914)		
TT-167	4 (1.219)		
TT-168	5 (1.524)		
TT-742	1 (.305)	3	2-cond. shielded cord with TT-253 phone plug attached at each end. Shield is grounded to sleeve of each plug; 2 cond. are wired tip-to-tip and ring-to-ring. (Single plugs)
TT-744	2 (.610)		
TT-746	3 (.914)		
TT-747	4 (1.219)		
TT-749	6 (1.829)	5	4-cond. shielded (5-circuit) cord with a TT-263 twin phone plug attached at each end. Plug sleeves at both ends connected in common through shield. Tips and rings wired to corresponding plug fingers at both ends. (Twin plugs)
TT-869	6 (1.829)		

TT-Replacement Cords

Series TT-700 cords have bronze tinsel conductors covered with thermoplastic insulation. A braided shield surrounds the conductors, and the cord is finished with a braided black nylon jacket. Cord ends reinforced to accept the internal threaded end of a "TT-Phone Plug" plug. Used as replacement cord for Series TT-720 & TT-740 patch cords. Also used on TT-Twin Plug plugs, Series TT-260, in dual cable assemblies with 2- and 3-cond. (or

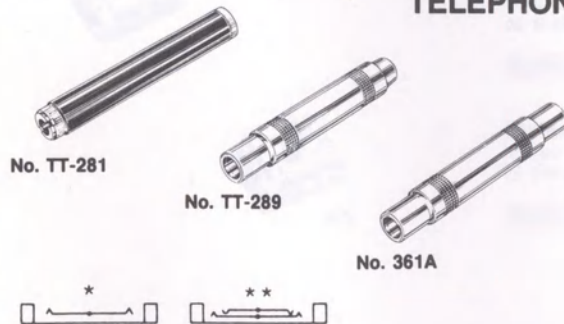
combinations) plug fingers requiring independent tip, ring, and sleeve circuits. Used also for single cable assemblies where supplementary cross-over wiring is needed for common tip, ring, and/or sleeve circuits.

Switchcraft Part No. TT-701—length 6 in. (152.4 mm).

Switchcraft Part No. TT-709—length 6 ft. (1.829 m).

TELEPHONE COUPLERS AND ADAPTERS

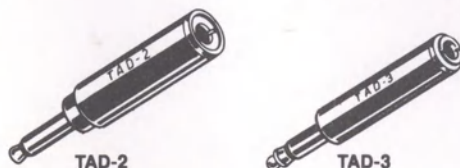
TELEPHONE PATCH COUPLERS



TT-Couplers interconnect 2- or 3-cond. patch cords terminated with Switchcraft standard or "tini-telephone" plugs, also similar telephone plugs with compatible finger shape and dimensions.

Part No.	Handle Color	Cond.	Input ID In. (mm)	Output ID In. (mm)	Schematic
TT-281	Black	2	.175 (4.44)	.175 (4.44)	*
TT-282	Red	2			*
TT-283	Black	3			**
TT-284	Red	3			**
TT-289	Metal	3	.175 (4.44)	.25 (6.35)	**
361A	Metal	2	.25 (6.35)	.25 (6.35)	*
362A	Metal	3			**

"tini-telephone" PATCH ADAPTERS



Eliminates cross patching problems in telephone and other audio systems, and eliminates "combination" patch cords (standard plug on one end and miniaturized plug on the other). Adapters have plug fingers which conform to MIL-P-642, (PJ-047, 2-cond; PJ-051 3-cond.) and have built-in miniaturized telephone jack in the handle.

Switchcraft Part No. TAD-2 converts standard 2-cond. jack .25 in. (6.35 mm) sleeve I.D. to miniaturized TT jack .175 in. (4.44 mm) sleeve I.D.

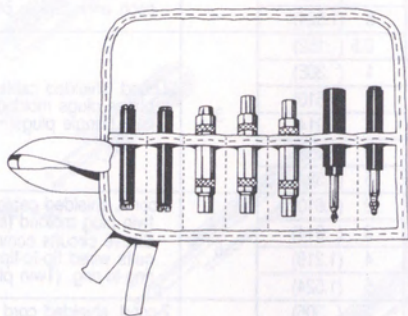
Switchcraft Part No. TAD-3 converts standard 3-cond. jack .25 in. (6.35 mm) sleeve I.D. to miniaturized jack .175 in. (4.44 mm) sleeve I.D.

For detailed data on above products, ask for Switchcraft Catalog J-140 and P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

TELEPHONE COUPLERS AND ADAPTERS (cont'd.)

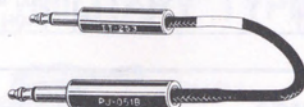
COUPLERS AND ADAPTERS KIT NO. K-152



Couplers and adapters provide dozens of simple convenient patching possibilities for standard and miniaturized, 2- or 3-cond. jack panels & jackfields. This Coupler and Adapter Kit makes central office jackfield patching a "snap".

Part No.	Description
TT-281	"TT" 2-cond. jack input to "TT" 2-cond. jack output. Black plastic handle.
TT-284	"TT" 3-cond. jack input to "TT" 3-cond. jack output. Red plastic handle.
TT-289	"TT" 3-cond. jack input to std. 3-cond. jack output. Metal handle.
361A	Std. 2-cond. jack input to std. 2-cond. jack output. Metal handle.
362A	Std. 3-cond. jack input to std. 3-cond. jack output. Metal handle.
TAD-2	
TAD-3	(NOTE: See page 73 for specifications.)

COMBINATION PATCH CORDS



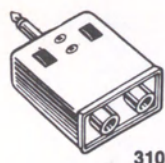
CPC Series Combination Patch Cords interconnect std. telephone jacks and miniature telephone jacks, such as Switchcraft "tini-telephone" jacks, and other miniature telephone jacks with similar configurations.

Part No.	Description
CPC-102K	6 ft. (1.829 m) cord with std. .25 in. (6.35 mm) O.D. finger, 3-cond. plug finger on one end, and miniature .173 in. (4.39 mm), 3-cond. "tini-telephone" plug finger on the other.

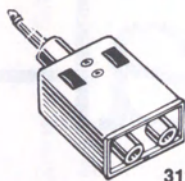
For detailed data on above products, ask for Switchcraft Catalog 353 and P-202.

NOTE: Contact your Switchcraft Representative for price & delivery.

Mini-Mix AUDIO MIXERS



310

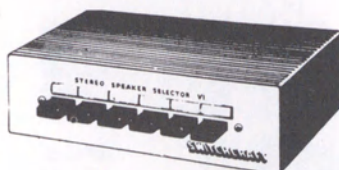


311

Miniature, high impedance microphone mixers accommodate 2, high impedance inputs with low cost factor. Feeds 2 signals into a single output. Each channel has separate gain control to regulate audio input. Controls recessed in housing. Size: 2.063 in. (52.40 mm) x 1.813 in. (46.05 mm) x 1.167 in. (29.64 mm).

Part No.	Description
310	2, 2-cond. phone jack inputs to 2-cond. phone plugs output.
311	As above, but has long plug output to fit recorders with recessed jacks.

STEREO SPEAKER SELECTOR SWITCHES



Control up to 6 stereo speaker systems or 6 pairs of monophonic speakers. Provides full stereo sound in every room throughout your home, office, school, club, etc. Metal housing of Stereo Speaker Selector VI, Models 644, 645 — black wrinkle finish with aluminum escutcheon. Black pushbuttons. Rubber "feet" eliminate scratches and mars on hi-fi cabinets, book shelves. Replaceable marking strip identifies speaker systems.

Six pairs of standard 2-cond. phone jack outputs and one pair of standard 2-cond. phone jack inputs provide easy rear panel plug-in connections from amplifier and speakers. Frequency response: DC to 30 kHz with negligible switching loss. Power handling: 100 W max., into 4-ohm load. No external power is required. Model 644 allows only one speaker system at a time to be on. Model 645 allows any number of speaker systems (up to 6) to play simultaneously. Part No. 646: escutcheon plate for flush mounting. Models 644, 645: template & four mounting screws. Template Models 644, 645 — 6 in. (152.4 mm) x 3 in. (76.2 mm) x 2 in. (51.2 mm). Part No. 646 — 6.75 in. (171.45) x 2.75 in. (69.85 mm).

Switchcraft Model No. 644
Switchcraft Model No. 645
Switchcraft Model No. 646

Hi-Fi STEREO SWITCHES AND CONTROLS



668



670

Hi-Fi and Stereo volume controls and selector switches are wired and ready to use. Attractive tan finished metal housing 2 in. (51.2 mm) x 2 in. (51.2 mm) x 1 in. (25.4 mm). Complete with mounting hardware and instruction sheet.

Stereo Selector Switch. Permits selection of both channels of any 1 of 3 stereo sources such as FM tuner, tape recorder and record player to one pair of outputs, such as a stereo amplifier. 3 pairs of phono jack inputs to 1 pair of phono jack outputs.

Switchcraft Part No. 668

Stereo Speaker Selector Switch. Connect 2 remote repairs of stereo speakers to a stereo amplifier. 3-position switch selects either pair of stereo speakers or both pairs at the same time. Screw terminals.

Switchcraft Part No. 670

For detailed data on above products, ask for Switchcraft Catalog A-404.

NOTE: Contact your Switchcraft Representative for price & delivery.

Numerical- Alphabetical Index

The merchandise listed in this catalog is arranged by product group and, with certain exceptions, is in numerical sequence. See Table of Contents, inside front cover.

To further facilitate product identification and simplify ordering, Switchcraft has devised its exclusive "Numerical-Alphabetical Index". This new index lists every Switchcraft part number, plus a page and line number to assist you in locating a product listing in just seconds.

When you do not have the complete description of a Switchcraft product, immediately refer to the "Numerical-Alphabetical Index" and follow these easy steps:

1

Look up the part number in the numerical-alphabetical index. Every Switchcraft part number is listed here, except for "specials."

2

In addition to the product number, you'll find a page number and a line number.

EXAMPLE:

Part	Page	Line
MDSL-2A	62	43

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